Canon

Canon DIGITAL CAMERA PowerShot S5 IS Advanced Camera User Guide

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Canon

PowerShot S5 IS

DIGITAL CAMERA



Advanced Camera User Guide

This guide explains camera features and procedures in detail.

DiG!C III PictBridge DIRECT PRINT BUBBLE JET DIRECT Exif Print DPOF CERTIFIED HI-SPEED USB

Main Features

Shooting
- 12x optical zoom with shift-method image stabilizer
- Controlling camera shake or blurry subjects while shooting using a high ISO speed set with the dedicated Auto ISO Shift
- Shoot movies in any mode by pressing the movie button (with stereo sound)
- Face priority AF that detects faces in a scene
- Use the separately sold wide converter, tele-converter, close-up lens, or an externally mounted flash for EOS cameras when shooting



Playback
- Plays movies with stereo sound
- Organizes images by category
- Auto plays slideshows
- Records sound only (sound recorder)

Editing
- Red-Eye Correction
- Adds effects to still images with My Colors
- Edits movies
- Records sound memos for still images

Printing
- Makes printing easy with the Print/Share button
- Also supports non-Canon brand PictBridge compliant printers

Uses of Recorded Images
- Effortlessly transfer them to a computer with the Print/Share button
- Freely customize the start-up image or start-up sound using the My Camera settings

Conventions Used in this Guide

Icons appearing next to, or below titles indicate the modes in which the procedure can be used.



- Unavailable shooting modes are shown grayed out.

See *Functions Available in Each Shooting Mode* (p. 199).

- In this guide, the *Basic Camera User Guide* is referred to as the *Basic Guide*, and the *Advanced Camera User Guide* is referred to as the *Advanced Guide*.

: This mark denotes issues that may affect the camera's operation.

: This mark denotes additional topics that complement the basic operating procedures.

You can use SD memory cards, SDHC memory cards and MultiMediaCards with this camera. These cards are collectively called memory cards in this guide.

Use of genuine Canon accessories is recommended.
This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Table of Contents

Items marked with a ★ are lists or charts that summarize camera functions or procedures.

Handling Precautions

Please Read

Test Shots

Before you try to photograph important subjects, we highly recommend that you shoot several trial images to confirm that the camera is operating and being operated correctly.
Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.

Warning Against Copyright Infringement

Please note that Canon digital cameras are intended for personal use and should never be used in a manner that infringes upon or contravenes international or domestic copyright laws and regulations. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations

This camera's warranty is only effective in the country of sale. If a problem arises while the camera is in use abroad, please convey it back to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk.
For Canon Customer Support contacts, please see the customer support list supplied with your camera.

Camera Body Temperature

If your camera is used for prolonged periods, the camera body may become warm. Please be aware of this and take care when operating the camera for an extended period.

About the LCD Monitor

The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification. Less than 0.01% of the pixels may occasionally misfire or appear as red or black dots. This has no effect on the recorded image and does not constitute a malfunction.

Video Format

Please set the camera’s video signal format to the one used in your region before using it with a TV monitor (p. 131).

Language Setting

Please see the *Basic Guide* (p. 8) to change the language setting.

Safety Precautions

- Before using the camera, please ensure that you read the safety precautions described below and in the “Safety Precautions” section of the *Basic Camera User Guide*. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to instruct you in the safe and correct operation of the camera and its accessories to prevent injuries or damage to yourself, other persons and equipment.
- Equipment refers to the camera, battery, battery charger (sold separately) and compact power adapter (sold separately).

⚠ Warnings

Equipment

- **Do not point the camera directly at the sun or bright light sources.**

Doing so could damage the camera's CCD or your eyesight.

- **Store this equipment out of the reach of children and infants.**

• Neck strap: Placement of the strap around the child's neck could result in asphyxiation.
• Memory card: It may be swallowed accidentally. If this occurs, contact a doctor immediately.

- **Do not attempt to disassemble or alter any part of the equipment that is not expressly described in this guide.**
- **To avoid the risk of high-voltage electrical shock, do not touch the flash portion of the camera if it has been damaged.**
- **Stop operating the equipment immediately if it emits smoke or noxious fumes.**
- **Do not allow the equipment to come into contact with, or become immersed in, water or other liquids. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth.**

Continued use of the equipment may result in fire or electrical shock. Immediately turn the camera power off and remove the camera batteries or unplug the battery charger or compact power adapter from the power outlet.
Please consult your camera distributor or the closest Canon Customer Support Help Desk.

- **Do not use substances containing alcohol, benzine, thinners or other flammable substances to clean or maintain the equipment.**
- **Do not cut, damage, alter or place heavy items on the power cord.**
- **Use only recommended power accessories.**
- **Remove the power cord on a regular periodic basis and wipe away the dust and dirt that collects on the plug, the exterior of the power outlet and the surrounding area.**
- **Do not handle the power cord if your hands are wet.**

Continued use of the equipment may result in fire or electrical shock.

Battery

- **Do not place the batteries near a heat source or expose them to direct flame or heat.**
- **The batteries should not be immersed in water or sea water.**
- **Do not attempt to disassemble, alter or apply heat to the batteries.**
- **Avoid dropping or subjecting the batteries to severe impacts that could damage the casing.**
- **Use only recommended batteries and accessories.**

Failure to follow these precautions may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contact these substances, immediately flush with water and seek medical assistance.

- **Disconnect the battery charger and compact power adapter from both the camera and the power outlet after recharging or when not in use to avoid fire and other hazards.**
- **Do not place anything, such as tablecloths, carpets, bedding or cushions, on top of the battery charger while it is charging.**

Leaving the units plugged in for a long period of time may cause them to overheat and distort, resulting in fire.

- **When recharging the Canon AA-size NiMH batteries, use only a specified battery charger.**
- **The compact power adapter is designed for exclusive use with this equipment. Do not use it with other products.**

There is a risk of overheating and distortion which could result in fire or electrical shock.

- **Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects.**

Contact with the metallic components of other materials in waste containers may lead to fire or explosions.

Others

- **Do not trigger the flash in close proximity to human or animal eyes. Exposure to the intense light produced by the flash may damage eyesight.**

In particular, remain at least one meter (39 inches) away from infants when using the flash.

- **Keep objects that are sensitive to magnetic fields (such as credit cards) away from the speaker of the camera.**

Such items may lose data or stop working.

- **When using the optional Canon Wide Converter, Tele Converter, Close-up Lens, or Conversion Lens Adapter, be sure to attach them firmly.**

If the lens becomes loose and falls off, it may crack, and the shards of glass may lead to cuts.

⚠ Cautions

Equipment

- **Do not get the camera caught on other objects or subject it to strong impacts or shocks when wearing or holding it by the strap.**
- **Be careful not to bump or strongly push the end of the lens.**

The above-mentioned could lead to injury or damage the equipment.

- **Do not store the equipment in humid or dusty areas.**
- **Do not allow metal objects (such as pins or keys) or dirt to contact the charger terminals or plug.**

Such conditions could lead to fire, electrical shock or other damage.

- **Avoid using, placing or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car.**
- **Do not use the camera in such a way that would cause it to exceed the rating of the power outlet or wiring. Do not use if the power cord or plug are damaged, or if not fully plugged into the outlet.**
- **Do not use in locations with poor ventilation.**

The above-mentioned can cause leakage, overheating or explosion, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.

- **When not using the camera for extended periods of time, remove the battery from the camera or battery charger and store the equipment in a safe place.**

If the batteries are left inside the camera, damage caused by leakage may occur.

Flash

- **Do not operate the flash with dirt, dust or other items stuck to the surface of the flash.**
- **Be careful not to cover the flash with your fingers or clothing when shooting.**

The flash may be damaged and emit smoke or noise. The resulting heat build-up could damage the flash.

- **Do not touch the surface of the flash after taking several pictures in rapid succession.**

Doing so could result in burns.

Preventing Malfunctions

Avoid Strong Magnetic Fields

- **Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields.**

Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

Avoid Condensation Related Problems

- **When moving the equipment rapidly between hot and cold temperatures, you can avoid condensation by placing the equipment in an airtight, resealable plastic bag and letting it adjust to temperature changes slowly before removing it from the bag.**

Moving the equipment rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces.

If Condensation Forms Inside the Camera

- **Stop using the camera immediately.**

Continued use may damage the equipment. Remove the memory card and battery or compact power adapter from the camera and wait until the moisture evaporates completely before resuming use.

Before Using the Camera - Basic Operations

Using the LCD Monitor and the Viewfinder

Pressing the **DISP.** button switches the display mode.
The screens that are displayed are based on the [Custom Display] settings (p. 15).
Also, closing the LCD monitor causes the viewfinder to display.

1 Press the DISP. button.

- The display mode changes as follows.

Shooting Mode ( )

: When the LCD monitor is opened.
: When the LCD monitor is closed.

LCD Monitor (Display Location) (No Information)*

LCD Monitor (Display Location) (Information View)*

Viewfinder (Display Location) (No Information)*

Viewfinder (Display Location) (Information View)*

Playback Mode ( )

No Information

Standard Display

Detailed Display

* Default setting. Displayed information can be changed (p. 15). (Shooting information, grid lines, and a histogram (P, Tv, Av or M only) are displayed with the default settings.)

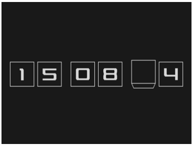
- The shooting information displays for approximately 6 sec. when a setting is changed, regardless of the selected display mode.
- You can adjust the brightness for the LCD monitor and viewfinder (p. 33).

- The LCD monitor on or off setting is retained even after the camera power is turned off.
- The LCD monitor will not switch to the detailed display in magnified display (p. 104), or index playback mode (p. 105).
- If the surroundings are too bright (for example, when you are shooting outdoors) and images on the LCD monitor are not clear, use the viewfinder for shooting. Adjust the viewfinder focus with the diopter adjustment dial (*Basic Guide* p. 3) so the displayed information appears clearly.

Using the Clock

You can display the current date and time for a 5-second* interval using the following two methods.

* Default setting.



① Hold the ⧉/⏱ button down while turning on the power.

② In a shooting/playback mode, hold the ⧉/⏱ button down for more than one second.

- If you hold the camera horizontally, it displays the time. If you hold it vertically, the time and date display.
- You can change the display color by pressing the ◀ or ▶ button.
- The clock display will cease when the display interval is over or when a button is operated.
- The clock's display interval can be changed in the [🔧 Set up] menu (p. 27).
- The clock cannot be displayed in the magnified display (p. 104).

Customizing Display Information

Shooting Mode AUTO SCN *1 *2 P Tv Av M

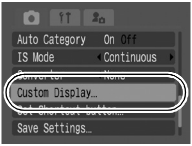
*1 Only [Shooting Info] can be displayed.
*2 [3:2 Guide] cannot be displayed.

You can set 2 display modes to select whether or not to display the following information on the LCD monitor and viewfinder, and switch between displays by pressing the **DISP.** button (p. 13).

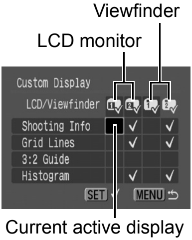
LCD/Viewfinder	You can select whether or not to display the following information on the LCD monitor (/) and viewfinder (/). The display modes can be switched in sequence by pressing the **DISP.** button (p. 13).
Shooting Info	Displays shooting information (p. 18).
Grid Lines	Displays grid lines to divide the screen into 9 parts. Helps confirm the vertical and horizontal positioning of the subject (p. 18).
3:2 Guide	Helps confirm the print area for a 3:2 print.* Areas outside the printable area are grayed out (p. 18). * Images are still recorded at the standard aspect ratio of 4:3.
Histogram	Displays histogram (**P**, **Tv**, **Av** and **M** modes only) (p. 17).

1 (Rec.) MENU → [Custom Display] → SET button.

See Menus and Settings (p. 27).



2 [LCD/Viewfinder] ➔ / / / .



- Sets LCD monitor or viewfinder display mode after the **DISP.** button is pressed.
- If you do not wish to change the display mode when the **DISP.** button is pressed, use the ▲, ▼, ◀ or ▶ button and press the **SET** button to display ⊘ (/ / /).
- You cannot add ⊘ to the current active LCD/Viewfinder icon.

3 [Shooting Info]/[Grid Lines]/[3:2 Guide]/[Histogram].

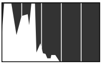
- Using the ▲, ▼, ◀ or ▶ buttons, select the items you wish to display on the LCD monitor and press the **SET** button to place a ✓ mark.
- Even though items that are grayed out can be set, they will not display in the current active shooting mode.
- Display locations with no ✓ marks will not have any information displayed.
- Default setting: , : No Information
  , : Displays shooting information, grid lines, and a histogram

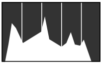
> If you press the shutter button halfway and return to the shooting screen from the custom display settings screen, the settings will not be saved.

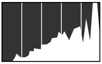
Histogram Function

The histogram is a graph that allows you to check the brightness of an image. You can also display the histogram in the P, Tv, Av and M modes to check the brightness while shooting. The greater the bias toward the left in the graph, the darker the image. The greater the bias toward the right, the brighter the image. If the image is too dark, adjust the exposure compensation to a positive value. Similarly, adjust the exposure compensation to a negative value if the image is too bright (p. 83).

Sample Histograms


Dark Image


Balanced Image


Bright Image

You can change the shutter speed, aperture value and ISO speed to adjust the brightness of an image in the M mode.

Night Display

When shooting in dark conditions, the camera automatically brightens the LCD monitor or viewfinder to suit the brightness of the subject*, making it easier to frame the subject.

* Although noise may appear and the movement of the subject shown on the LCD monitor or viewfinder may appear somewhat jagged, there is no effect on the recorded image. The brightness of the image displayed in the monitor, and the brightness of the actual image recorded will be different.

Information Displayed on the LCD Monitor

Shooting Information (Shooting Mode)

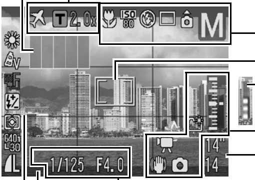
Histogram (p. 17)



Zoom Bar

Focus range (rough guide)

- Time Zone (p. 23)
- Digital Tele-Converter (p. 40)
- Zoom Magnification (p. 40)
- Safety Zoom (p. 41)



Buffer Warning*2

3:2 Guide (p. 15)

Grid Lines (p. 15)

- Exposure Compensation*1 (p. 83)
- White Balance (p. 88)
- My Colors (p. 91)
- Bracket (pp. 77, 87)
- Flash Exposure Compensation (p. 94)/Flash Output (p. 94)
- Metering Mode (p. 78)
- Recording Pixels/ Frame Rate (Movies) (p. 53)
- Compression (Still image) (p. 39)
- Recording Pixels (p. 53)
- (Red) Camera Shake*1 (p. 19)

- Wind Filter (p. 56)
- Shooting disabled (p. 55)
- Standard Exposure Index/ Exposure Level Mark (p. 68)
- Create Folder (p. 100)
- MF Indicator (p. 74)

- Stills: Recordable Shots*3
- Movies: Remaining Time*3/ Elapsed Time

- AE Lock/FE Lock (pp. 84, 86)
- Exposure Shift Bar (Movie) (p. 52)
- Shutter Speed (p. 181)
- Aperture Value
- Image Stabilizer (p. 44)
- AF Lock (p. 74)
- Manual Focus (p. 75)

Shooting Mode (*Basic Guide* p. 11-13) (p. 57) (p. 50)
Save Settings (p. 96)
Macro/Super Macro (*Basic Guide* p. 16)
ISO Speed (p. 80)
Low Battery (p. 159)
Flash (*Basic Guide* p. 14) (Red) Flash Warning (p. 19)
Drive Mode (p. 46, *Basic Guide* p. 18)
Auto Rotate (p. 99)
●Rec Movie Recording (p. 50)

[ ] Spot AE Point Frame (p. 78)
AF Frame (p. 69)

*1 Displays when the shutter button is pressed halfway.

*2 This is not normally displayed. It appears when remaining available internal memory (buffer) is half or less during movie recording (when the buffer warning indicates full, shooting or recording may be stopped).

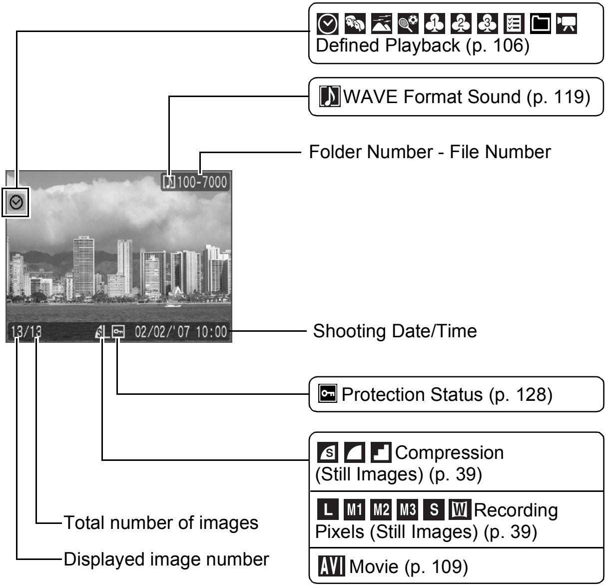
*3 "0" appears in red when no more recording space is available for either still images at the current number of recordable images, or movies. When both recording capacities are full, the "Memory card full" message appears.

The "Raise the flash" message, (camera shake warning), or (flash warning) icon blinks red on the LCD monitor (or viewfinder) in low light conditions while the camera is preparing to shoot. Use one of the following shooting methods.

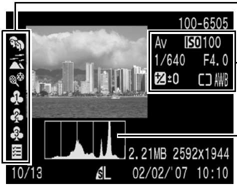
- Set the IS mode to any setting other than [Off] (p. 30)
- Raise the ISO speed (p. 80)
- Set the Auto ISO Shift to [On] (p. 81)
- Raise the flash to enable automatic or normal firing
- Fix the camera to a tripod

Playback Information (Playback Mode)

■Standard



■Detailed



My Category (p. 106)

Histogram (p. 17)

Shooting Mode (*Basic Guide* pp. 11-13)	Flash Exposure Compensation (p. 94)
Still image shot while shooting a movie (p. 54)	Flash Output (p. 94)
ISO 80 ··· ISO1600 ISO Speed (p. 80)	* * My Colors (p. 117)
Shutter Speed (p. 181)	My Colors (Playback) (p. 117)
Aperture Value	Red-Eye Reduction Function
Recording Pixels/ Frame Rate (Movies)(p. 53)	Red-Eye Correction Function (p. 115)/ Image with a My Colors effect (p. 117)
-2 ··· +2 Exposure Compensation (p. 83)	Manual Focus (p. 75)
Metering Mode (p. 78)	Macro/Super Macro (*Basic Guide* p. 16)
White Balance (p. 88)	File size
	Recording Pixels (Still Image) (p. 38)
	Movie Length (Movies) (p. 187)

* Appears when shooting in the color accent or color swap mode.

The following information may also be displayed with some images.

♪?	A sound file in a format other than the WAVE format is attached or the file format is not recognized.
⚠	JPEG image not conforming to Design rule for Camera File System Standards (p. 182).
RAW	RAW image
?	Unrecognized data type

- Information for images shot on other cameras may not display correctly.
- **Overexposure Warning**
  In the following cases, overexposed portions of the image blink.
  - When reviewing an image right after shooting in the LCD monitor (information view) or in the viewfinder (information view)
  - When using the detailed display mode of the Playback mode

Power Saving Function

This camera is equipped with a power saving function. The power will shut off in the following circumstances. Turn the camera on again to restore power.

Shooting Mode	Powers down approximately 3 minutes after the last control is accessed on the camera. The LCD monitor or viewfinder automatically turns off 1 minute* after the last control is accessed even if [Auto Power Down] is set to [Off] (Press any button other than the OFF button or change the camera orientation to turn the LCD monitor or viewfinder back on).
Playback Mode Connected to a Printer	Powers down approximately 5 minutes after the last control is accessed on the camera.

* Default setting. This time can be changed.

- Please note that when the power is turned off with the power saving function, small amounts of power are still consumed.
- The power saving function will not activate during a slide show or while the camera is connected to a computer.
- The power saving function settings can be changed (p. 33).

Setting the World Clock

When traveling abroad, you can record images with local dates and times simply by switching the time zone setting if you pre-register the destination time zones. You can enjoy the convenience of not having to switch the Date/Time settings.

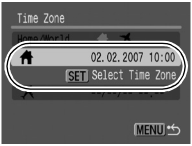
Setting the Home/World Time Zones

1 **(Set up) Menu ➔ [Time Zone] ➔ SET button.**

See Menus and Settings (p. 27).

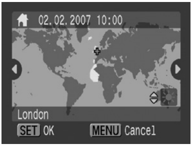


2 **(Home) ➔ SET button.**



3 **Use the ◀ or ▶ button to select a home time zone ➔ SET button.**

- To set the daylight saving option, use the ▲ or ▼ button to ☀ display. The time will advance by 1 hour.



4 ✈ (World) ➜ SET button.



5 Use the ◀ or ▶ button to select a destination time zone ➜ SET button.

- As in Step 3, you can set daylight saving time.

Time difference from home time zone



6 Use the ▲ button to select [Home/World], and the ◀ or ▶ button to select 🏠 ➜ MENU button.

Switching to the Destination Time Zone

1 **(Set up) Menu → [Time Zone] → SET button.**

See Menus and Settings (p. 27).



2 **Use the ◀ or ▶ button to select ✈ → MENU button.**

- To change the destination time zone, press the **SET** button.
- When you switch to the destination time zone, ✈ will display on the LCD monitor.



If you do not select a home time zone beforehand, you cannot configure the destination time.

If you change the date and time when the destination time zone is selected, the home time zone date and time will also change automatically.

Before Using the Camera - Basic Operations

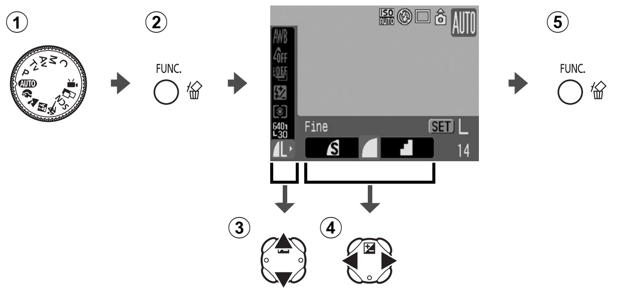
Menus and Settings

Menus are used to set the shooting, playback and print settings as well as such camera settings as the date/time and electronic beep. The following menus are available.

- **FUNC. Menu**
- **Rec., Play, Print, Set up, and My Camera Menus**

FUNC. Menu

Sets many of the functions commonly used during shooting.



• This example shows the FUNC. menu in AUTO.

① **Set the shooting mode dial to the shooting mode you want to use.**

② **Press the FUNC. button.**

③ **Use the ▲ or ▼ button to select a menu item.**

- Some items may not be selectable in some shooting modes.

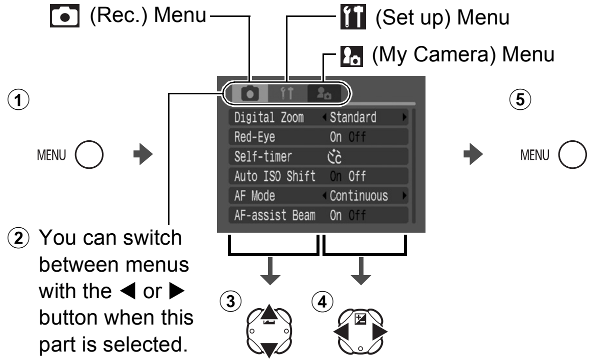
④ **Use the ◀ or ▶ button to select an option for the menu item.**

- You can select further options with the **SET** button for some options.
- After selecting an option, you can press the shutter button to shoot immediately. After shooting, this menu will appear again, allowing you to adjust the settings easily.

⑤ **Press the FUNC. button.**

Rec., Play, Print, Set up and My Camera Menus

Convenient settings for shooting, playback or printing can be set with these menus.



- This example shows the Rec. menu when in AUTO mode.
- In playback mode, the Play, Print, Set up and My Camera menus display.

① **Press the MENU button.**

② **Use the ◀ or ▶ button to switch between menus.**
- You can also use the zoom lever to switch between menus.

③ **Use the ▲ or ▼ button to select a menu item.**
- Some items may not be selectable in some shooting modes.

④ **Use the ◀ or ▶ button to select an option.**
- Menu items followed by an ellipsis (...) can only be set after pressing the **SET** button to display the next menu. Press the **SET** button again to confirm the setting.

⑤ **Press the MENU button.**

Menu List

See *Functions Available in Each Shooting Mode* (p. 199).

FUNC. Menu

The icons shown below are the default settings.

Menu Item		Reference Page
AWB	White Balance	p. 88
OFF	My Colors	p. 91
OFF	Bracket	pp. 77, 87
±/	Flash Exposure Compensation/Flash Output	p. 94
	Metering Mode	p. 78
640 30	Recording Pixels/Frame Rate (Movie)	p. 53
L	Compression/Recording Pixels (Still Image)	p. 38

Rec. Menu ([camera icon])

*Default setting

Menu Item	Options	Summary/ Reference Page
FlexiZone	On*/Off	p. 71
Digital Zoom		p. 40
(Still Image)	Standard*/Off/1.6x/2.0x	
(Movies)	Standard*/Off	
Flash Sync	1st-curtain*/2nd-curtain	p. 95
Slow Synchro	On/Off*	p. 43
Flash Adjust	On*/Off	p. 94
Red-Eye	On*/Off	p. 42
Safety FE	On*/Off	p. 67
Self-timer	Delay: 0 - 10*, 15, 20, 30 sec. Shots: 1 - 10* (Default setting is 3 shots.)	*Basic Guide* p. 18
Spot AE Point	Center*/AF Point	p. 78
Safety Shift	On/Off*	p. 67
Auto ISO Shift	On/Off*	p. 81
MF-Point Zoom	On*/Off	p. 75
Safety MF	On*/Off	p. 76
AF Mode	Continuous*/Single	p. 72
AF-assist Beam	On*/Off	–
Tally Lamp	On*/Off	p. 51
Review	Off/2 sec.* to 10 sec./Hold	*Basic Guide* p. 10
Save Original	On/Off*	p. 62
Reverse Disp.	On*/Off	*Basic Guide* p. 6

Auto Category	On*/Off	Sets whether or not images are automatically classified into categories during shooting.*1
IS Mode		pp. 18, 44
(Still Image)	Continuous*/Shoot Only/ Panning/Off	
(Movies)	On*/Off	
Converter	Off*/WC-DC58A/ TC-DC58B/500D	p. 171
Custom Display Settings		p. 15
LCD/Viewfinder	/ / /	
Shooting info.	Off*2/On*3	
Grid Lines	Off*2/On*3	
3:2 Guide	Off*2*3/On	
Histogram	Off*2/On*3	
Set Shortcut button	* WB AEL AFL	p. 97
Save Settings	–	p. 96

*1 They are classified according to the following categories.
(People): , or images with faces detected when [Face Detect] has been selected.
(Scenery): , ,
(Events): , , , , ,

*2 Default setting for LCD monitor 1 and viewfinder display 1.

*3 Default setting for LCD monitor 2 and viewfinder display 2.

Play Menu (▶)

Menu Item	Reference Page
Slide Show	p. 123
My Category	p. 106
Erase	p. 132
Protect	p. 128
Red-Eye Correction	p. 115
My Colors	p. 117
Sound Recorder	p. 121
Rotate	p. 113
Transfer Order	p. 139
Transition	p. 114

Print Menu (🖨)

Menu Item	Reference Page
Print	p. 134
Select Image & Qty.	
Select by Date	
Select by Category	
Select by Folder	
Select All Images	
Clear All Selections	
Print Settings	

Set up Menu (🔧)

*Default setting

Menu Item	Options	Summary/ Reference Page
Mute	On/Off*	Set to [On] to silence all operation sounds except for the warning sounds (*Basic Guide* p. 9).
Volume	Off / 1 / 2* / 3 / 4 / 5	Adjusts the volume of the start-up sound, operation sound, self-timer sound, shutter sound and playback sound. The volume cannot be adjusted if [Mute] is set to [On].
Start-up Vol.		Adjusts the volume of the start-up sound when the camera is turned on.
Operation Vol.		Adjusts the volume of the operation sound that beeps when any button other than the shutter button is pressed.
Selftimer Vol.		Adjusts the volume of the self-timer sound played 2 sec. before the shutter is released.
Shutter Volume		Adjusts the volume of the sound played when the shutter releases. The shutter sound does not play when a movie is recording.
Playback Vol.		Adjusts the volume of movie sounds, sound memos or sound recorder.

Menu Item	Options	Summary/ Reference Page
Audio		p. 56
Mic level	Auto*/Manual	Sets method of adjustment for the sound recording level.
Level	-40 to 0 dB	Sets the sound recording level.
Wind Filter	On/Off*	Reduces wind noise.
LCD Brightness	(Normal)*/ (Bright)	Adjusts the brightness for the LCD monitor and viewfinder separately. (Display the location you wish to adjust the brightness for, and then configure the settings.)
Power Saving		p. 22
Auto Power Down	On*/Off	Sets whether or not the camera automatically powers down after a set period of time elapses without the camera being operated.
Display Off	10 sec./20 sec./ 30 sec./1 min.*/ 2 min./3 min.	Sets the length of time before the LCD monitor (or viewfinder) turns off when no camera operation is performed.
Time Zone	Home*/World	p. 23
Date/Time		*Basic Guide* p. 8
Clock Display	0 - 5* - 10 sec./ 20 sec./30 sec./ 1 min./2 min./3 min.	p. 14
Format		You can also select a low level format (p. 37).

Menu Item	Options	Summary/ Reference Page
File Numbering	Continuous*/ Auto Reset	p. 102
Create Folder		p. 100
Create New Folder	Check mark (On)/ No check mark (Off)	Creates a folder during the next shooting session.
Auto Create	Off*/Daily/ Monday-Sunday/ Monthly	You can also set an auto creation time.
Auto Rotate	On*/Off	p. 99
Distance Units	m/cm* or ft/in	Sets the unit of measurement of the distance displayed for the MF indicator and the focus range (p. 75).
Language		*Basic Guide* p. 8
Video System	NTSC/ PAL	p. 131
Print Method	Auto*/	See below*1
Reset All		p. 36

*1 The connection method with the printer can be changed. Although it is normally not necessary to change the setting, select when borderless printing an image shot in (Wide) mode on wide size paper using Canon compact photo printer SELPHY CP730/CP720/CP710/CP510. As this setting will be stored to memory even when the power is turned off, to print using an image size other than , return the mode to [Auto] (however, the connection method cannot be changed while connected to a printer).

My Camera Menu ( )

*Default setting

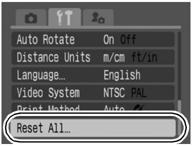
Menu Item		Summary	Reference Page
	Theme	Selects a common theme for each My Camera settings item.	p. 141
	Start-up Image	Sets the image displayed when the camera power is turned on.	
	Start-up Sound	Sets the sound played when the camera power is turned on.	
	Operation Sound	Sets the sound played when any button other than the shutter button is pressed.	
	Selftimer Sound	Sets the sound played 2 seconds before the shutter releases in self-timer mode.	
	Shutter Sound	Sets the sound played when the shutter button is pressed. There is no shutter sound for movies.	
My Camera Menu Contents		(Off) / 1*/ 2/ 3	

Before Using the Camera - Basic Operations

Resetting Settings to Their Default Values

1 (Set up) Menu → [Reset All].

See Menus and Settings (p. 27).



2 Select [OK] and press the SET button.

- Settings cannot be reset when the camera is connected to a computer or to a printer.
- The following cannot be reset.
  - Shooting mode
  - The [Time Zone], [Date/Time], [Language] and [Video System] options in the [(Set up)] menu (p. 33)
  - White balance data recorded with the custom white balance function (p. 88)
  - Colors specified in the [Color Accent] (p. 59) or [Color Swap] (p. 60) modes in the SCN mode
  - Newly registered My Camera settings (p. 142)
- When the camera is in shooting mode and the mode dial is set to C, only the settings saved for C mode will return to default settings. This is the only way to return C mode settings (p. 96) to defaults.

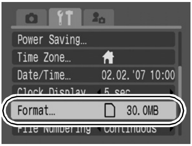
Formatting Memory Cards

You should always format a new memory card or one from which you wish to erase all images and other data.

- Please note that formatting (initializing) a memory card erases all data, including protected images and other file types.
- When the 🎙 icon is displayed, sound data recorded with the sound recorder exists. Exercise adequate caution before formatting the memory card.

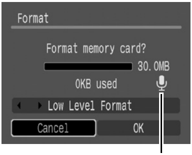
1 (Set up) Menu ➔ [Format].

See Menus and Settings (p. 27).



2 Select [OK] and press the SET button.

- To perform a low level format, use the ▲ button to select [Low Level Format] and the ◀ or ▶ button to add a check mark.
- You can stop formatting a card when [Low Level Format] is selected by pressing the **SET** button. You can still use a card without problem when formatting is halted, but its data will be erased.



Displays when sound recorder data is present (p. 121).

- This operation is not available in ▭ mode.
- **Low Level Format**
  We recommend you select [Low Level Format] when you think that the recording/reading speed of a memory card has dropped. A low level format may require 2 to 3 minutes with some memory cards.

Shooting

Changing the Recording Pixels and Compression (Still Images)

Shooting Mode AUTO SCN P Tv Av M

1 **FUNC. Menu ➜ * (Compression/Recording Pixels) ➜ L* (Recording Pixels).**

See Menus and Settings (p. 27).

* Default setting.

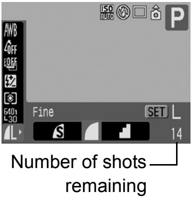
- Use the ◀ or ▶ button to select recording pixel.
- settings cannot be made in W mode.



2 **SET button ➜ * (Compression).**

* Default setting.

- Use the ◀ or ▶ button to select compression.



Approximate Values for Recording Pixels

Recording Pixels			Purpose
L **Large**	3264 × 2448 pixels	High ↑	Printing to about A3 size (Approx. 297 × 420 mm (11.7 × 16.5 in.))
M1 **Medium 1**	2592 × 1944 pixels		Printing to about A4 size (Approx. 210 × 297 mm (8.3 × 11.7 in.)) Printing to about Letter size prints 216 × 279 mm (8.5 × 11 in.)
M2 **Medium 2**	2048 × 1536 pixels		Printing to about A5 size (Approx. 149 × 210 mm (5.9 × 8.3 in.))
M3 **Medium 3**	1600 × 1200 pixels		Printing postcard-size prints 148 × 100 mm (6 × 4 in.) Printing L-size prints 119 × 89 mm (4.7 × 3.5 in.)
S **Small**	640 × 480 pixels	↓ Low	Sending images as e-mail attachments or shooting more images
W* **Wide**	3264 × 1832 pixels	Printing wide size prints (Images are recorded with 16:9 aspect ratios. Areas not recorded will display as black bars on the LCD monitor.)	

* Cannot be used in [mode icon] mode.
• Paper sizes vary according to region.

Approximate Values for Compression Settings

Recording Pixels		Purpose
Superfine	High Quality	Shoot higher quality images
Fine	↕	Shoot normal quality images
Normal	Normal	Shoot more images

- See *Image Data Sizes (Estimated)* (p. 188).
- See *Memory Cards and Estimated Capacities* (pp. 188, 186).

Using the Digital Zoom/ Digital Tele-Converter

Shooting Mode AUTO SCN*1 *2 P Tv Av M

*1 Cannot be set in and modes.
*2 [Digital Tele-converter] cannot be set.

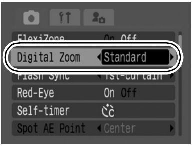
You can combine digital zoom with optical zoom when shooting. The available shooting characteristics and focal lengths (35mm film equivalent) are as follows.

Selection	Focal Length	Shooting Characteristics
Standard	36 – 1728 mm	Enables shooting at zoom factors of up to 48x with digital and optical zoom combined.
Off	36 – 432 mm	Enables shooting without digital zoom.
1.6x	57.6 – 691.2 mm	Digital zoom is fixed at the selected zoom factor, and the focal length shifts to maximum telephoto. This enables a faster shutter speed and less chance of camera shake than a shot taken at the same angle of view with [Standard] or [Off].
2.0x	72 – 864 mm	

The digital zoom cannot be used in (Wide) mode.

1 (Rec.) Menu ➔ [Digital Zoom] ➔ [Standard]*/[Off]/[1.6x]/[2.0x].

See Menus and Settings (p. 27).



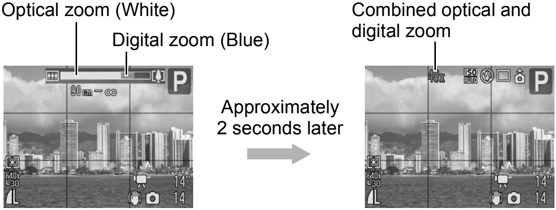
* Default setting.

- **When using [Standard]**
  See *Shooting With the Digital Zoom* (p. 41).
- **When using [1.6x] or [2.0x]**
  See *Shooting With the Digital Tele-Converter* (p. 42).

Shooting With the Digital Zoom

2 Press the zoom lever toward and shoot.

- The combined digital and optical zoom setting will display in the LCD monitor.
- Based on the number of recording pixels set, the Safety Zoom feature calculates the maximum zoom factor beyond which image quality will begin to deteriorate. The digital zoom pauses at this zoom factor for a moment, and appears on the LCD monitor.
  If you press the zoom lever toward again, you can zoom in even closer.
  In this case, the color of the zoom bar means as follows:
  - White: optical zoom
  - Yellow: digital zoom (non-deteriorative)
  - Blue: digital zoom (deteriorative)
- Press the zoom lever toward to zoom out.



Shooting With the Digital Tele-Converter

2 **Adjust the angle of view with the zoom lever and shoot.**

- [T] appears on the LCD monitor.
- Depending on the number of recording pixels set, image quality may deteriorate ([T] and the zoom factor appear in blue).



About the Digital Tele-Converter

The digital tele-converter feature uses digital zoom to achieve the effects of a tele-converter (a lens used for telephoto shooting).

Setting the Red-Eye Reduction Function

Shooting Mode	AUTO, SCN*, P, Tv, Av, M

*Cannot be set in [mode icon] mode.

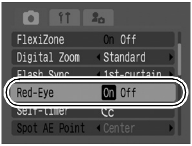
You can set whether or not the red-eye reduction* lamp automatically fires with the flash.

* This feature reduces the effect of light reflecting back from the eyes and making them appear red.

1 **(Rec.) Menu → [Red-Eye] → [On]*/[Off].**

See Menus and Settings (p. 27).

* Default setting.



Setting the Slow Synchro

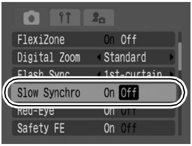
Shooting Mode: AUTO, SCN, P, Tv, Av, M

The flash timing is adjusted to slow shutter speeds. This reduces the chance that only the background will appear dark when a night scene or an interior shot is taken.

1 (Rec.) Menu ➔ [Slow Synchro] ➔ [On]/[Off]*.

See Menus and Settings (p. 27).

* Default setting.



When [Slow Synchro] set to [On], camera shake may become a factor even if [IS Mode] is set to [Continuous]. Use of a tripod is recommended.

Setting the Image Stabilizer Function

Shooting Mode	AUTO SCN P Tv Av M

The lens-shift type image stabilizer function allows you to minimize the camera shake effect (blurred images) when you shoot distant subjects that have been magnified or when you shoot in dark conditions without a flash.

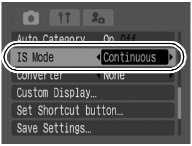
Continuous	You can check the effect of the IS mode on image blur on the LCD monitor (or viewfinder) since the IS mode runs continually. This makes it easier to compose images and focus on subjects.
Shoot Only*	Shoot Only IS mode is only activated when the shutter button is pressed. When set to [Continuous], some blurring may occur depending on the subjects. In Shoot Only mode, subjects can be taken without concern for any unnatural movement that may appear on the LCD monitor (or viewfinder).
Panning*	This option only stabilizes the effect of up and down camera motions on the image. This option is recommended for shooting objects moving horizontally.

* This option is not available in the movie mode.

1 (Rec.) Menu ➔ [IS Mode] ➔ [Continuous]*/[Shoot Only]/[Planning]/[Off].

See Menus and Settings (p. 27).

* Default setting.



The following icons appear on the LCD monitor.

[Continuous]	[Shoot Only]	[Panning]	[Converter] setting in Rec. menu	Reference Page
			None	–
			WC-DC58A	p. 190
			TC-DC58B	
			500D	

- If you change the mode dial to in the still image shooting mode after setting [IS Mode] to [Shooting] or [Panning] in the still image shooting mode, the setting will change to [Continuous].
- Camera shake may not be fully corrected when shooting with slow shutter speeds, such as with evening shots. Use of a tripod is recommended.
- If camera shake is too strong, it may not be fully corrected.
- Hold the camera horizontally while [Panning] (stabilization does not work when the camera is held vertically).

Continuous Shooting

Shooting Mode AUTO SCN* P Tv Av M

*Cannot be set in and mode.

In this mode, the camera shoots continuously while the shutter button is held down.
If you use the recommended memory card*, you can shoot continuously (smooth continuous shooting) at a set shooting interval until the memory card is full (pp. 186, 188).

* **Recommended Memory Card:**
Super high-speed SDC-512MSH memory card (sold separately) to which low-level formatting (p. 37) is conducted immediately before shooting.

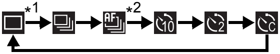
		Shooting speed (Image/sec.)	Focus while shooting	Display on the LCD monitor
	Continuous You can shoot continuously at a short shooting interval.	Approx. 1.5	Fixed*	Recorded image
AF	**Continuous Shooting AF** You can shoot continuously with auto focus.	Approx. 0.9	Auto focus	Subject right before shooting
LV	**Continuous Shooting LV (Live View)** You can shoot continuously with a manually set focus position while confirming the subject.	Approx. 0.9	Fixed*	Subject right after shooting

* The focus position of first image is fixed.

- (Large/Fine) mode.
- This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.
- Even if continuous shooting suddenly stops, the memory card may not be full.

1 Press the / button to display , or .

- Each time you press the / button, the continuous shooting settings will change.



*1 Default setting.
*2 is displayed in and manual focus modes.

2 Shoot.

- The camera will continue to record successive images while the shutter button is held down.
  Recording will cease when the shutter button is released.

To Cancel Continuous Shooting:

Follow Step 1 to select .

- When in , will be the default setting. cannot be set.
- is not displayed in mode (is displayed instead).
- Cannot be set while in the focus bracketing shooting mode or AEB shooting mode.
- AF frame will be set to [Center] in mode.

- The interval between shots lengthens when the built-in memory of the camera fills.
- If the flash is used, the interval between shots lengthens because the flash must charge.

Checking for Focus Right After Shooting

Shooting Mode AUTO SCN P Tv Av M

You can check whether the image is in focus right after it is recorded.

1 Shoot.

- The recorded image displays for about 2 seconds (or the interval set with the [Review] feature (p. 29)).

2 Press the DISP. button (or the SET button) while the image is displayed.

- The number of times the **DISP.** button is pressed depends upon the display settings for the LCD monitor (p. 15). Press the **DISP.** button repeatedly until the screen at the right appears.
- Displays as follows.
  - Camera is focused: AF frame for the image that has been shot displays in white, and an orange frame appears within the focused frame.
  - Camera is not focused: An orange frame displays at the center of the image that has been shot.
  - Contents within the orange frame can be confirmed at the bottom right. Zoom magnification can be changed using the zoom lever (p. 104).
  - You can change the display position within the orange frame using the **MENU** button or the ▲, ▼, ◀ or ▶ button.



To Cancel Checking the Focus:

Press the shutter button halfway.

- You can delete an image by pressing the 🗑 button while the image is displayed (See *Basic Guide* p. 20).
- Pressing the **DISP.** button will change the display on the LCD monitor as follows.
  Focus Confirmation→Detailed Display→No Information

Switching between AF Frames/ Changing the Display Position

1 Press the MENU button.

- For images displaying multiple AF frames that are in focus, the display within the orange frame changes with each press of the **MENU** button.



2 Use the ▲, ▼, ◀ or ▶ button to change the display position.

- When you press the **MENU** button, the orange frame returns to its original position. When there are multiple AF frames displayed, the **MENU** button switches between the different positions of the orange frames.

Using the Mode Dial

Movie Shooting

Shooting Mode	AUTO, Portrait, Landscape, Night Snapshot, Kids & Pets, SCN, Stitch Assist, Movie, P, Tv, Av, M

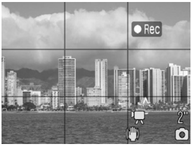
No matter what position the mode dial is in, you can shoot movies*[1] with just a push of the Movie button.
You can select the movie recording pixels and frame rate (p. 53) and shoot with color effects such as Color Accent, Color Swap, and My Colors. Sound is recorded in stereo.
In modes other than movie mode, some of the settings previously set in menus such as the FUNC. and Rec. menus may be changed to those of the movie recording mode.

- Max. Clip Size: 4 GB*[2]

*1 You can record until the memory card is full (when a super high-speed memory card is used, such as the recommended SDC-512MSH).

*2 Even if the clip size has not reached 4 GB, recording will stop at the moment the clip length reaches 1 hour.
Depending on memory card capacity and data write speed, recording may stop before the file size reaches 4 GB or the recording time reaches 1 hour.

1 Press the Movie button to shoot.



- Shooting starts when the Movie button is pressed. Recording will include sound.
- During shooting, the recording time and [● Rec] appear on the LCD monitor (or viewfinder).
- When a face is detected while shooting, the camera will focus on that face.
- The tally lamp blinks red during movie recording and turns off when the recording session is over. When [Tally Lamp] is set to [Off] in the Rec. menu, the lamp does not blink (p. 29).
- Pressing the Movie button again stops recording. Recording will stop automatically under the following circumstances.
  - When the maximum recording time elapses
  - When the internal memory and the memory card becomes full
- When shooting with the Color Accent or the Color Swap, be sure to specify them beforehand (p. 59).

- You are recommended to use a memory card that has been formatted in your camera to shoot movies (p. 37). The card supplied with the camera may be used without further formatting.
- Be careful of the following while recording.
  - Try not to touch the microphone (*Basic Guide* p. 1).
  - If you press any buttons other than the Movie button, the sound that the buttons make when pressed will be recorded in the movie.
  - The camera will automatically adjust the exposure and white balance to suit the shooting conditions during a recording. Please note, however, that the sounds made by the camera while automatically adjusting the exposure may also be recorded.
- Images of recorded with this camera may not play back properly on other cameras.
- Even if you shoot movies with the recording pixels for still images set to W, the aspect ratio of the recorded movie will be the usual 4:3 screen.
- Do not point the camera at the sun when shooting.

- When you press the **MF** button, AF lock is set at the current focus condition. MF displays on the LCD monitor (or viewfinder).
- You can set the AE lock (p. 84) and exposure shift while shooting movies (you can also set them before shooting when the mode dial is set to movie).
  1. Press the **ISO** button.
     The exposure will lock (AE lock) and the exposure shift bar will appear in the LCD monitor (or viewfinder).
  2. Use the ◀ or ▶ button to adjust the exposure.
     Press the **ISO** button again to release the setting. Also, the setting will be canceled if you press the **MENU** button or change the white balance, My Colors, or shooting mode settings.

- When movie recording is stopped in any mode dial position except (Movie), the still image settings return to the settings before movie shooting began. AE lock (p. 84) and exposure shift, however, are disabled.
- QuickTime is required to play back movies (Data type: AVI/ Compression method: Motion JPEG) on a computer (Windows 2000 only).

Changing Movie Recording Pixels and Frame Rates

You can change the movie recording pixels and frame rate in any shooting mode.

1 FUNC. button → 640 L30*/640 LLP/320 L60/320 L30 (Recording Pixels/Frame Rate).

See Menus and Settings (p. 26).

* Default setting.

- Use the ◀ or ▶ button to select the recording pixels/frame rate and press the **FUNC.** button.



Movie Recording Pixels/Frame Rates

Frame rates indicate the number of frames recorded or played back each second. The higher the frame rate, the smoother the appearance of motion.

	Recording Pixels	Frame Rates
640 L30	640 × 480 pixels	30 frames/sec.
640 LLP	640 × 480 pixels	30 frames/sec., LP (Long Play)
320 L60	320 × 240 pixels	60 frames/sec.
320 L30	320 × 240 pixels	30 frames/sec.

- When priority is on movie length rather than image quality, select 640 LP. You can shoot for twice as long in this mode compared to a file of the same size shot in the other modes.
- See *Image Data Sizes (Estimated)* (p. 188).
- See *Memory Cards and Estimated Capacities* (p. 186).

Shooting Still Images while Shooting a Movie

Shooting Mode AUTO SCN P Tv Av M

You can shoot a high quality still image* while shooting a movie.

* The recording pixels and compression are the same as those set for still images (excluding W).

1 While shooting a movie, press the shutter button halfway to focus.

- Press the shutter halfway so the camera can focus and set exposure for the still image. The electronic sound does not play. During this process, movie shooting continues.

2 Press the shutter button all the way to shoot the image.

- When a still image is shot, the display on the LCD monitor will disappear momentarily and then return to the movie display. Because the shutter sound of the still image being taken is also recorded, the audio of that moment in the movie will sound cut off.

- The flash will not fire.
- The ISO speed will be fixed to Auto.
- The recording pixels of still images taken while shooting movies are fixed at L (Large) regardless of being set to W.
- Continuous shooting of still images is not available.
- Movie shooting may stop when shooting a still image if there is insufficient internal memory available.
- The following icons appear if the recording speed of the storage media is too slow or if there is insufficient internal memory available, in which case a still image cannot be shot.
  - : While this is blinking, writing is in progress. Shooting is again possible when it stops blinking and stays lit.
  - : Internal memory is full, so shooting is disabled.

Setting the Recording Function

Shooting Mode AUTO SCN P Tv Av M

The microphone level (sound recording level) of the movie and sound memos (p. 119) and wind filter setting (p. 121) can be changed.

1 (Set up) menu ➔ [Audio].

See Menus and Settings (p. 27).



2 [Mic Level] ➔ [Auto]*/[Manual].

* Default setting.

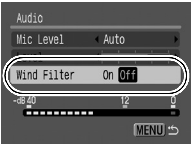
- When in [Manual] mode, press the ▼ button, then set the sound recording level (recording volume) with the ◀ or ▶ button.



3 [Wind Filter] ➔ [On]/[Off]*.

* Default setting.

- Recommended to set to [On] when the wind is strong.
- When set to [On], displays in the LCD monitor or viewfinder in movie mode only.



- When in [Auto] mode, if the recording volume becomes too loud, it automatically prevents distortion of sound.
- Wind filter suppresses noise when the wind is strong. However, unnatural sound will result when used to record in locations with no wind.

Shooting Panoramic Images (Stitch Assist)

Shooting Mode | AUTO SCN P Tv Av M

Stitch Assist can be used to shoot overlapping images that can later be merged (stitched) to create one panoramic image on a computer.





The overlapping seams of several adjacent images can be joined into a single panoramic image.

1 Use the ◀ or ▶ button to select the shooting sequence.



- You can select from the following 5 shooting directions.
  - Left to right horizontally
  - Right to left horizontally
  - Bottom to top vertically
  - Top to bottom vertically
  - Clockwise starting at the top left shooting 4 images

2 Shoot the first frame of the sequence.

- The exposure and white balance are set and locked with the first image.

3 Compose the second image so that it overlaps a portion of the first and shoot.



- Use the ◀, ▶, ▲ or ▼ button to return the previous image or retake the recorded images. (When shooting clockwise, you can retake all of the images.)
- Minor discrepancies in the overlapping portions will be corrected when the images are stitched together.

4 Repeat the procedure for additional images.

- A sequence may contain up to 26 images (excluding clockwise shooting).
- Press the **SET** button after the last shot.

- You cannot display the images on a TV while shooting in Stitch Assist mode.
- The settings for the first image are applied to the second image onward.

Use PhotoStitch, a supplied software program, to merge the images on a computer.

SCN Changing the Colors and Shooting

Shooting Mode AUTO SCN ( ) P Tv Av M

You can easily change the colors in an image when it is shot for both stills and movies, allowing you to enjoy producing various effects. Depending on the shooting conditions, however, the images may appear rough, or you may not get the expected color. Before photographing important subjects, we recommend taking trial shots and checking the results. By setting the [Save Original] function (p. 62) to [On] when shooting stills, you can also record both the altered image and the original, unaltered image.

Color Accent		Use this option to have only the color specified in the LCD monitor remain and to transform all others to black and white.
Color Swap		Use this option to transform a color specified in the LCD monitor into another. The specified color can only be swapped into one other color, and multiple colors cannot be chosen.

Depending on the scene being shot, the ISO speed may increase, increasing the amount of noise in the image.

Shooting with Color Accent Mode

1 Use the ◀ or ▶ button to select (Color Accent) ➜ ISO button.

- The camera will switch to color input mode, and the display will alternate between the original image and the Color Accent image (using the previously set color).



2 Aim the camera so that the color you wish to retain appears at the center of the LCD monitor (or viewfinder) and press the ◀ button.

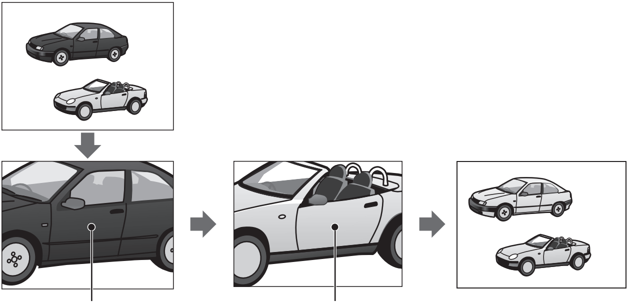
- Only one color can be specified.
- You can use the ▲ or ▼ button to specify the range of the colors that are retained.
  -5: Only takes the color that you want to retain.
  +5: Also takes colors close to the one that you want to retain.

3 Complete the setting with the ISO button, and shoot.

- When you press the Movie button, you can shoot movies in Color Accent mode.

- The default Color Accent is green.
- You may not obtain the expected results after color input mode if you use the flash.
- The specified Color Accent is retained even if the camera's power is turned off.

Shooting with Color Swap Mode



Original Color
(Before Swapping)

Desired Color
(After Swapping)

1 Use the ◀ or ▶ button to select [Color Swap icon] (Color Swap) ➧ ISO button.

- The camera will switch to color input mode, and the display will alternate between the original image and the color swap image (using the previously set color).



2 Aim the camera so that the color you wish to change appears at the center of the LCD monitor (or viewfinder) and press the ◀ button.

- Only one color can be specified.
- You can use the ▲ or ▼ button to specify the range of the colors that are retained.
  -5: Only takes the color that you want to change.
  +5: Also takes colors close to the one that you want to change.

3 Aim the camera so that the desired color appears at the center of the LCD monitor (or viewfinder) and press the ▶ button.

- Only one color can be specified.

4 Complete the setting with the ISO button, and shoot.

- When you press the Movie button, you can shoot movies in Color Swap mode.

- The default setting for Color Swap changes green into white.
- You may not obtain the expected results after color input mode if you use the flash.
- The colors specified in the Color Swap mode are retained even if the camera's power is turned off.

Saving Original Images

Not only can you save images with altered colors when shooting still images with the Color Accent or Color Swap modes, but you can also choose to save the original images (before the color change).

1 **(Rec.) Menu ➔ [Save Original] ➔ [On]/[Off]*.**

See Menus and Settings (p. 27).



* Default setting.

- If [On] is selected, the images will be saved as consecutive file numbers. The original image will be the lower file number, while the image shot in Color Accent or Color Swap mode will be the higher file number.

If [Save Original] is set to [On]

- Only the image set with Color Accent or Color Swap is displayed on the LCD monitor (or viewfinder) during shooting.
- The image displayed on the LCD monitor (or viewfinder) immediately after shooting is the one shot with Color Accent or Color Swap. As erasing the image at this time will cause the original image to be erased at the same time, be careful.
- As two images are saved with each shot, the number of recordable shots displayed on the LCD monitor (or viewfinder) will be half the number that is displayed when [Save Original] is set to [Off].

You cannot save the originals of still images taken while shooting a movie in Color Accent or Color Swap mode.

Shooting in the Creative Zone

Shooting Mode AUTO SCN P Tv Av M

You can freely select camera settings such as the shutter speed and aperture value to suit your shooting purposes. After settings are made, shooting procedures are the same as for "AUTO Shooting (Auto Mode)" (*Basic Guide* p. 11).

- For information on the relation between the aperture value and shutter speed see p. 65.
- Please note that camera shake becomes a factor at low shutter speeds and with larger aperture values. If (camera shake warning) appears in the LCD monitor (or viewfinder), try the following steps to resolve the problem.
  - Use the (image stabilizer) function.
  - Raise the ISO speed.
  - Set the Auto ISO Shift to [On] (p. 81).
  - Raise the flash to fire.
  - Use a tripod.

P Program AE

Shooting Mode AUTO SCN P Tv Av M

Use the program AE mode to have the camera automatically set the shutter speed and aperture value to match the brightness of the scene.

- When a correct exposure cannot be obtained, the shutter speed and aperture values are shown in red on the LCD monitor when the button is pressed halfway. Use the following shooting methods to obtain the correct exposure and make them show in white.
  - Use the flash (raise the flash).
  - Adjust the ISO Speed.
  - Set the Auto ISO Shift to [On] (p. 81).

You can change the combinations of shutter speeds and aperture values without altering the exposure (p. 85).

Tv Setting the Shutter Speed

Shooting Mode	AUTO, SCN, P, **Tv**, Av, M

When you set the shutter speed, the camera automatically selects an aperture value to match the brightness.
Faster shutter speeds allow you to catch an instantaneous image of a moving subject, while slower speeds create a flowing effect and allow you to shoot without a flash in dark areas.

1 Use the ◀ or ▶ button to select the shutter speed, then shoot.

- If the aperture value is shown in red, the image is underexposed (insufficient light) or overexposed (too much light). Use the ◀ or ▶ button to adjust the shutter speed until the aperture value shows in white.
- The nature of CCD image sensors is such that noise in the recorded image increases at slow shutter speeds. This camera, however, applies special processing to images shot at shutter speeds slower than 1.3 seconds to eliminate the noise, thereby producing high-quality images (Nevertheless, a certain amount of processing time may be required before the next image can be shot).

- The aperture value and shutter speed change according to the zoom state as follows.

	Aperture Value	Shutter Speed (seconds)
Maximum Wide Angle*1	f/2.7 – 3.5	to 1/1600
	f/4.0 – 5.0	to 1/2000
	f/5.6 – 7.1	to 1/2500
	f/8.0	to 1/3200
Maximum Telephoto*2	f/3.5 – 4.5	to 1/1600
	f/5.0 – 6.3	to 1/2000
	f/7.1 – 8.0	to 1/2500

*1 Maximum wide angle setting
*2 Maximum telephoto setting

- The fastest shutter speed for built-in flash synchronization is 1/500 second*. The camera automatically resets the shutter speed to 1/500 second or slower, if a faster speed is selected.

  * For details on using an externally mounted flash, see p. 172.

■Shutter Speed Display

- The numbers in the table below indicate the shutter speed in seconds. 1/160 indicates 1/160 second. Also, quote marks indicate the decimal place, so that 0"3 indicates 0.3 second and 2" indicates 2 seconds.

15" 13" 10" 8" 6" 5" 4" 3"2 2"5
2" 1"6 1"3 1" 0"8 0"6 0"5 0"4 0"3
1/4 1/5 1/6 1/8 1/10 1/13 1/15
1/20 1/25 1/30 1/40 1/50 1/60 1/80
1/100 1/125 1/160 1/200 1/250 1/320
1/400 1/500 1/640 1/800 1/1000 1/1250
1/1600 1/2000 1/2500 1/3200

- You can change the combinations of shutter speeds and aperture values without altering the exposure (p. 85).

Av Setting the Aperture

Shooting Mode	AUTO, SCN, P, Tv, **Av**, M

The aperture adjusts the amount of light entering through the lens. When you set the aperture, the camera automatically selects a shutter speed to match the brightness.
Selecting a lower aperture value (opening the aperture) allows you to blur the background and create a beautiful portrait.
A higher aperture value (closing it) brings the entire range from foreground to background into focus. The larger the aperture value, the greater the range of the image brought into clear focus.

1 Use the ◀ or ▶ button to select the aperture value, then shoot.

- If the shutter speed is shown in red, the image is underexposed (insufficient light) or overexposed (too much light). Adjust the aperture value using the ◀ or ▶ button until the shutter speed display turns to white.
- Some aperture values cannot be selected depending on the zoom position.

In this mode, the maximum shutter speed with synchronized flash is 1/500 second*. The aperture value setting may therefore be changed automatically to match the synchronized flash speed even if its value was set previously.

* For details on using an externally mounted flash, see p. 172.

■Aperture Setting Display

- The larger the aperture value the smaller the lens opening, allowing less light to enter the camera.

F2.7	F3.2	F3.5	F4.0	F4.5	F5.0	F5.6	F6.3	F7.1	F8.0

- You can change the combinations of shutter speeds and aperture values without altering the exposure (p. 85).

About Safety Shift/Safety FE

Safety Shift

If you set [Safety Shift] to [On] (p. 29) in the Rec. menu when the shooting mode is Tv or Av and press the shutter button halfway, the camera automatically changes the shutter speed or aperture value to obtain the correct exposure if necessary. The safety shift function does not work when the flash is on.

Safety FE

If you set [Safety FE] to [On] (p. 29) in the Rec. menu when shooting with the flash in the P, Tv or Av shooting mode, the camera automatically changes the shutter speed or aperture value when the flash fires to avoid overexposing and blowing out the highlights in the scene.

M Manually Setting the Shutter Speed and Aperture

Shooting Mode	AUTO, Portrait, Landscape, Night Scene, Sports, SCN, Stitch Assist, Movie, P, Tv, Av, **M**

You can manually set the shutter speed and aperture to shoot images.

1 **Use the ◀ or ▶ button to select the shutter speed, and use the ▲ or ▼ button to select the aperture value, then shoot.**

- When you press the shutter button halfway, the difference between the standard exposure* and the selected exposure appears on the LCD monitor (or viewfinder). If the difference is more than 2 stops, "-2" or "+2" appears on the LCD monitor (or viewfinder) in red.

  * The standard exposure is calculated by measuring the brightness according to the selected metering method.



- If the zoom is adjusted after these values are set, the aperture value or the shutter speed may change in accordance with the zoom position.
- The brightness of the LCD monitor (or viewfinder) matches the selected shutter speed and aperture value. When you select a fast shutter speed or shoot a subject in a dark place, raise the flash and then set it to ⚡ (Flash on) or attach an externally mounted flash (p. 172), the image will always be bright.

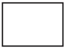
Advanced Shooting Functions

Selecting an AF Frame

Shooting Mode	AUTO SCN* P Tv Av M

*Cannot be set in mode.

The AF frame indicates the area of the composition on which the camera focuses.
You can set the AF frame in the following ways.

	**Face Detect**	You can have the camera automatically detect the position of a face and use this data to set the focus and exposure* while shooting. In addition, the camera will meter the subject so that the face is correctly illuminated when the flash fires*. If a face is not detected, images will be shot using the [Center] option. * Exposure and flash are set only in evaluative metering mode (p. 78).
	**Center**	The camera focuses using the center AF frame. This is convenient for ensuring that your intended subject is in focus and for composing images. AF frame position can be moved (p. 71).

Selecting Face Detect or Center

1 **Press the [AF frame] button.**

- Each time you press the [AF frame] button, the AF frame settings will switch to the [Face Detect] or [Center] option.



When [FlexiZone] is set to [On] (p. 71), [Face Detect] cannot be selected by pressing the [AF frame] button (the default setting is [On] in the P, Tv, Av or M mode).

- The AF frame appears as follows when the shutter button is pressed halfway.
  - Green: Shooting preparations complete
  - Yellow: Focusing difficulty*

  * Displays only when the AF frame is set to [Center].
- The following occurs when [Face Detect] is selected.
  - Up to three AF frames display. At this point, the frame the camera judges to be the main subject appears in white while the others appear in gray. Pressing the shutter button halfway displays up to 9 green AF frames.
  - If no white frame displays and all the frames appear in gray, images will be shot using the [Center] option rather than [Face Detect].
  - The camera may mistakenly identify non-human subjects as a face. If this occurs, switch to the [Center] option.
  - In certain cases, faces may not be detected.
    Examples:
    - Faces near the screen edges or faces that appear extremely small, large, dark or bright in relation to the overall image.
    - Faces turned to the side or at a diagonal, or faces with a portion hidden.

Moving the AF Frame

When the shooting mode is **P**, **Tv**, **Av** or **M**, the AF frame can be moved manually to the desired area (Active Frame Control).

1 **(Rec.) Menu ➜ [FlexiZone] ➜ [On]*/[Off].**

See Menus and Settings (p. 27).

* Default setting.



2 **Press the button.**

- The AF frame appears in green.

3 **When moving the AF frame to the face of the subject, press the MENU button.**



4 **Move the AF frame to the position you wish to set using the ▲, ▼, ◀ or ▶ button, then press the button.**

- The AF frame will move back to its original position (center), if you hold down the button.

- When the Spot AE Point is selected as the metering mode, you can use the selected Spot AE Point as the AF frame (p. 78).
- Selection cannot be made while in the manual focus mode (p. 75).
- The position of the AF frame returns to the center once the power is turned off or the lens is retracted in playback mode (*Basic Guide* p. 7).

Switching between Focus Settings

Shooting Mode AUTO SCN* P Tv Av M

*In mode only [Single] is available.

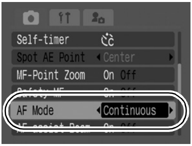
You can set the AF mode.

Continuous	The camera is continually focusing on whatever it is aimed even when the shutter button is not pressed, allowing you to shoot without missing opportunities. This is the default setting.
Single	The camera only focuses when the shutter button is pressed halfway, conserving battery power.

1 (Rec.) Menu ➜ [AF Mode] ➜ [Continuous]*/[Single].

See Menus and Settings (p. 27).

* Default setting.



Shooting Hard-to-Focus Subjects (Focus Lock, AF Lock, Manual Focus)

Shooting Mode AUTO SCN* P Tv Av M

*Cannot be used in mode.

It may be difficult to focus on the following types of subjects.

- **Subjects with extremely low contrast to the surroundings**
- **Scenes with a mixture of near and far subjects**
- **Subjects with extremely bright objects at the center of the composition**
- **Subjects that are moving quickly**
- **Subjects through glass: Try to shoot as close to the glass as possible to reduce the chances of light reflecting back off the glass.**

Shooting with the Focus Lock

1 **Aim the camera so that an object at the same focal distance as the main subject is centered in the viewfinder or in the AF frame displayed on the LCD monitor (or viewfinder).**

2 **Press the shutter button halfway to lock the focus.**

3 **Keep the shutter button pressed while you recompose the image and press the shutter button all the way to shoot the image.**

Shooting with the AF Lock

*Cannot be used in AUTO or [Kids & Pets] mode.

1 **Aim the camera so that an object at the same focal distance as the main subject is centered in the AF frame.**

2 **Press the shutter button halfway and press the MF button.**

- MF and the MF indicator will appear on the LCD monitor (or viewfinder).

3 **Re-aim the camera to compose the shot as desired and shoot.**

To Release the AF Lock:

Press the **MF** button.

- The AF lock is convenient because you can let go of the shutter button to compose the image. Moreover, the AF lock is still effective after the picture is taken, allowing you to capture a second image with the same focus.
- When shooting with the focus lock or AF lock using the LCD monitor, setting the AF frame to [Center] (p. 69) makes shooting easier since the camera focuses using the center AF frame only.
- Because [Stitch Assist] and [Movie] do not display the AF frame, aim the camera to focus on the subject.

Shooting in Manual Focus Mode

The focus can be manually set.

*Cannot be used in AUTO or (sports icon) mode.

1 **Use the ▲ or ▼ button to adjust the focus while holding down the MF button.**

- MF and the MF indicator are displayed.
- When the (Rec.) menu's [MF-Point Zoom] is set to [On], the portion of the image in the AF frame will appear magnified*.



MF Indicator

  * When using (movie), (stitch assist), digital zoom or while displaying the image on a TV, the display magnification is not available.
  * Can also be set so that the image displayed is not magnified (p. 29).

- The MF indicator shows approximate figures. Use them as a shooting guideline only.

To Cancel the Manual Focus:

Press the **MF** button.

You can change distance units displayed on the MF indicator (p. 34).

Using the Manual Focus in Combination with the Auto Focus

*Cannot be used in AUTO or [Stitch Assist] mode.

First, manual focus is used to roughly focus, then from that focus position the camera automatically focuses more accurately. You can use two methods.

■Using the SET Button

This allows you to confirm the automatic focusing position before shooting.

1 Focus the camera with the manual focus, then press the SET button.

- The camera focuses automatically to a more accurate focusing point.

■Using the Safety MF

This is useful when you want to adjust a manual focus position to the correct focus position before shooting.

1 [Rec.] (Rec.) Menu ➜ [Safety MF] ➜ [On]*/[Off].

See Menus and Settings (p. 27).

* Default setting.



2 Focus the camera with the manual focus, then press the shutter button halfway.

- The camera focuses automatically to a more accurate focusing point.

3 Press the shutter button fully to shoot.

> You cannot change the AF frame setting while focusing manually. Cancel the manual focus mode, then change the AF frame setting.

Focus Bracketing (Focus-BKT Mode)

Shooting Mode: AUTO SCN **P Tv Av M**

The camera automatically takes three shots: one at the manual focus position, and one each with focus positions preset farther and nearer. The three shots are taken at the same interval as continuous shooting (p. 46).
The farther and nearer focus positions can be set in three steps: large, medium and small.

> The Focus-BKT mode is not available when shooting with the flash on. Only one image at the manual focus position will be taken.

1 FUNC. Menu ➔ * (BKT-OFF) ➔ (Focus-BKT) ➔ SET button.

See Menus and Settings (p. 26).

* Default setting.



2 Set the amount of focus position offset with the ◀ or ▶ button.

- Press the ▶ button to broaden or the ◀ button to narrow the focusing distance from the center.



3 Press the FUNC. button and shoot the image with manual focus (p. 75).

To Cancel the Focus-BKT Mode:

Select (BKT-Off) in Step 1.

Switching between Metering Modes

Shooting Mode: P Tv Av M

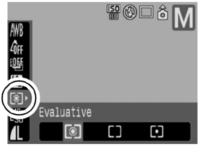
	Evaluative		The camera divides images into several zones for light metering. The camera evaluates complex lighting conditions, such as the position of the subject, the brightness, the background, the direct light, and the backlighting, and adjusts the settings to the correct exposure for the main subject.
	Center-Weighted Average		Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
	Spot AE Point		Meters the area within the spot AE point frame. Use this setting when you want to set the exposure on the subject in the center of the monitor.
		Center	Locks the spot metering frame to the center of the LCD monitor (or viewfinder).
		AF Point	Moves the spot AE point to the AF frame.

1 FUNC. Menu ➜ * (Evaluative).

See Menus and Settings (p. 26).

* Default setting.

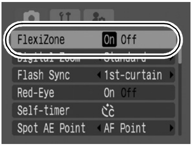
- Use the ◀ or ▶ button to adjust the exposure compensation and press the **FUNC.** button.



Moving the Spot AE Point to the AF Frame/ Centering the Spot AE Point

1 **(Rec.) Menu ➜ [FlexiZone] ➜ [On].**

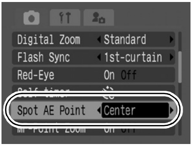
See Menus and Settings (p. 27).



2 **Return to the shooting screen and press the button to select [Center].**

3 **(Rec.) Menu ➜ [Spot AE Point] ➜ [Center]*/[AF Point].**

See Menus and Settings (p. 27).



* Default setting.

- When [Spot AE Point] is set to [Center], the spot AE point frame ([ ]) appears at the center of the LCD monitor (or viewfinder). The AF frame can be repositioned.
- When [Spot AE Point] is set to [AF Point], it appears inside the moved AF frame.

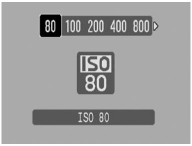
Advanced Shooting Functions

ISO Adjusting the ISO Speed

Shooting Mode: AUTO P Tv Av M

Raise the ISO speed when you wish to reduce the effects of shaking hands and shoot with the flash off in a dark area or when you wish to reduce the effects of a moving subject and raise the shutter speed.

1 Press the ISO button and use the ◀ or ▶ button to switch settings.



- When in AUTO shooting mode, only ISO AUTO or ISO HI can be selected.
- When ISO AUTO (Auto) is selected, the optimal speed is selected based on the brightness of the environment at the time of shooting. The speed is automatically increased in dark places, increasing the shutter speed and reducing shaking effects.
- Selecting ISO HI (High ISO Auto)* sets the sensitivity to a higher value than the ISO AUTO setting. This sets the shutter speed faster, reducing the potential for camera shake or blurry subjects compared with the ISO AUTO setting.

* Noise in the recorded image may be higher than for the ISO AUTO setting.

ISO Speed \ Shooting Mode		AUTO	P	Tv	Av	M
AUTO	ISO AUTO	○*	○*	○*	○*	–
HI	ISO HI	○	○	–	–	–
80	ISO 80	–	○	○	○	○*
100	ISO 100	–	○	○	○	○
200	ISO 200	–	○	○	○	○
400	ISO 400	–	○	○	○	○
800	ISO 800	–	○	○	○	○

1600	ISO 1600	–	○	○	○	○

○ : Available

* : Default setting.

- When the shooting modes cannot be set the ISO speed, the ISO speed will be fixed to Auto.
- When the camera is set to ISO AUTO or ISO HI and you press the shutter button halfway, the camera will set and display the ISO speed. This ISO speed will also appear in the playback information.
- The camera automatically applies noise reduction processing when you shoot at a high ISO speed.

Adjusting the ISO Speed Quickly (Auto ISO Shift)

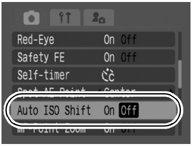
Shooting Mode AUTO SCN P Tv Av M

By simply pressing the button when (camera shake warning) appears while shooting, you can raise the ISO speed and shoot at a shutter speed that minimizes camera shake.

1 (Rec.) Menu ➜ [Auto ISO Shift] ➜ [On]/[Off]*.

See Menus and Settings (p. 27).

* Default setting.



2 Press the shutter button halfway.

- The [camera shake icon] appears and the [print/share button] button will blink blue (however, when the viewfinder display, the [print/share button] button will not blink).



3 Press the [print/share button] button while still pressing the shutter button halfway. When the [print/share button] button lights, press the shutter button all the way.

- When you press the [print/share button] button again while the shutter button is still pressed halfway, the ISO speed returns to its original setting.
- If you set AE lock (p. 84) after the ISO speed is raised, the camera remains in the mode for changing ISO speed even when the shutter button is released (the button remains lit blue until AE lock is released).

- You cannot enable this setting in [ISO HI], [ISO 800] or [ISO 1600] mode, or when using the flash.
- Depending on the shooting conditions, the [camera shake icon] (camera shake warning) icon may not disappear even after the ISO speed is raised.

Adjusting the Exposure Compensation

Shooting Mode AUTO SCN* P Tv Av M

*Cannot be set in and mode.

Adjust the exposure compensation to a positive value to avoid making the subject too dark when it is backlit or shot against a bright background. Adjust the exposure compensation to a negative value to avoid making the subject too bright in night shots or when shot against a dark background.

1 Press the button.

See Menus and Settings (p. 26).



- Use the ◀ or ▶ buttons to adjust the exposure compensation and press the button.
- The compensation value in AEB mode (p. 87) will be displayed in gray.

To Cancel the Exposure Compensation:

Restore the compensation value to [0].

In mode, the exposure shift can be set/canceled (p. 52).

Locking the Exposure Setting (AE Lock)

Shooting Mode AUTO SCN P Tv Av M

You can set the exposure and focus separately. This is effective when the contrast is too strong between the subject and background or when a subject is backlit.

You must set the flash to ⊛. The AE lock cannot be set if the flash fires.

1 Focus on the part of the subject on which you wish to lock the exposure setting.

2 Press and hold the shutter button halfway and press the ISO button.

- The exposure is fixed.
- The ✱ appears on the LCD monitor (or viewfinder).

3 Re-aim the camera to compose the shot as desired and press the shutter button fully.

To Release the AE Lock:

Press any button other than the **ISO** button.

- You can set the exposure shift after the AE lock in the movie mode (p. 52).
- You can use the FE lock when using the flash (p. 86).

Changing Shutter Speed and Aperture Value Combinations

Automatically selected combinations of shutter speeds and aperture values can be freely changed without altering the exposure (Program Shift).

1 **Focus on the subject on which you wish to lock the exposure.**

2 **Press the ISO button while pressing the shutter button halfway.**

- The exposure setting locks and ✱ appears on the LCD monitor (or viewfinder).



3 **Press the ◀ or ▶ button until the desired shutter speed or aperture value is reached.**

4 **Recompose the image and shoot.**

- The setting will cancel after the shot is taken.

Cannot be used in 🎥 mode.

Advanced Shooting Functions

Shooting with FE Lock

Shooting Mode AUTO SCN P Tv Av M

You can obtain the correct exposure regardless of the location of your subject in the composition.

1 **Raise the flash.**

2 **Press the ⚡ button and set it to ⚡ (flash on).**

- When an external flash is attached, refer to the manual for your flash.

3 **Focus on the part of the subject on which you wish to lock the flash exposure setting.**

4 **Press the shutter button halfway and press the ISO button.**

- The flash will pre-fire and the exposure setting will be locked.
- ✱ appears on the LCD monitor (or viewfinder).

5 **Re-aim the camera to compose the shot as desired and press the shutter button fully.**

To Release the FE Lock:

Press anything except the ▼, ◀ or ▶ button.

You cannot use the FE lock when [Flash Adjust] is set to [Manual] (p. 93).

Auto Exposure Bracketing (AEB Mode)

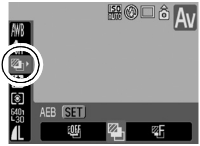
Shooting Mode AUTO SCN P Tv Av M

In this mode, the camera automatically changes the exposure within a set range to take three shots as the same interval as continuous shooting (p. 46). The images are shot in the following order: Standard exposure, underexposure and overexposure.

1 FUNC. Menu ➔ * (BKT-Off) ➔ (AEB) ➔ SET button.

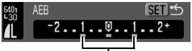
See Menus and Settings (p. 26).

* Default setting.



2 Adjust the compensation range with the ◀ or ▶ button.

- The compensation range can be adjusted in 1/3 increments from -2 to +2 with the exposure at the time of shooting at the center. If exposure adjustment (p. 83) is already done, setting can be done with the adjusted value as the center point.



Compensation value in AEB mode

To Cancel the AEB Mode:

Select the (BKT-Off) in Step 1.

The AEB mode cannot be used for flash photography. Only one standard exposure image gets recorded.

Advanced Shooting Functions

Adjusting the Tone (White Balance)

Shooting Mode AUTO SCN P Tv Av M

Normally, the AWB (Auto) white balance setting selects an optimal white balance. When the AWB (Auto) setting cannot produce natural looking colors, change the white balance using a setting appropriate for the light source.

1 **FUNC. Menu → AWB* (Auto).**

See Menus and Settings (p. 26).

* Default setting.

- Use the ◀ or ▶ button to select a white balance setting and press the **FUNC.** button.



White Balance Settings

AWB	Auto	Settings are automatically set by the camera.
	Day Light	For recording outdoors on a bright day.
	Cloudy	For recording under overcast, shady or twilight skies.
	Tungsten	For recording under tungsten and bulb-type 3-wavelength fluorescent lighting.
	Fluorescent	For recording under warm-white, cool-white or warm-white (3-wavelength) fluorescent lighting.
	Fluorescent H	For recording under daylight fluorescent, or daylight fluorescent-type 3-wavelength fluorescent lighting.
	Flash	When using the flash (cannot be set in movie mode).
	Custom	For recording with the optimal white balance data retained in the camera from a white-colored object, such as white paper or cloth.

The white balance setting cannot be adjusted when or is selected for My Colors.

Using the Custom White Balance

You can set a custom white balance to obtain the optimal setting for the shooting conditions by having the camera evaluate an object, such as a piece of white paper or cloth, or a photo-quality gray card that you wish to establish as the standard white color.

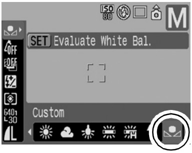
In particular, take a (Custom) white balance reading for the following situations that are difficult for the (Auto) setting to detect correctly.

- Shooting close-ups (Macro)
- Shooting subjects of monotone color (such as sky, sea or forest)
- Shooting with a particular source of light (such as a mercury-vapor lamp)

1 **FUNC. Menu → *(Auto) → (Custom).**

See Menus and Settings (p. 26).

* Default setting.



2 **Aim the camera at a piece of white paper or cloth and press the SET button.**

- If you are viewing it with the LCD monitor, ensure that the center frame is completely filled with the white image. However, the center frame will not appear when the digital zoom is being used.

- You are recommended to set the shooting mode to **P** and the exposure compensation setting to zero (±0) before setting a custom white balance. The correct white balance may not be obtained when the exposure setting is incorrect (image appears completely black or white).
- Shoot with the same settings as when reading the white balance data. If the settings differ, the optimal white balance may not be set. In particular, the following should not be changed.
  - ISO speed
  - Flash: Setting the flash to on or off is recommended. If the flash fires when reading the white balance data with the flash set to [Auto], make sure that you also use the flash when you shoot.
- Since the white balance data cannot be read in ⧉ mode, preset the white balance in another shooting mode beforehand.

Shooting in a My Colors Mode

Shooting Mode: AUTO, SCN, P Tv Av M

You can change the look of an image when it is shot.

My Colors Settings

	My Colors Off	Records normally.
	Vivid	Emphasizes the contrast and color saturation to record bold colors.
	Neutral	Tones down the contrast and color saturation to record neutral hues.
	Sepia	Records in sepia tones.
	B/W	Records in black and white.
	Positive Film	Use this option to make red, green or blue colors more intense like the Vivid Red, Vivid Green or Vivid Blue effects. It can produce intense natural-appearing colors like those obtained with positive film.
	Lighter Skin*	Use this option to make skin tones lighter.
	Darker Skin*	Use this option to make skin tones darker.
	Vivid Blue	Emphasize blue tints. Use to make blue subjects, such as the sky or ocean, more vivid.
	Vivid Green	Emphasize green tints. Use to make green subjects, such as mountains, new growth, flowers and lawns, more vivid.
	Vivid Red	Emphasize red tints. Use to make red subjects, such as flowers or cars, more vivid.
	Custom	Use this option to adjust the balance between contrast, sharpness, saturation, reds, greens, blues and skin tones*. It can be used to make subtle adjustments, such as making blue colors more vivid or face colors brighter.

* If the image contains colors that are the same as human skin, those colors will also be changed. You may not obtain the expected results depending on the skin color.

1 FUNC. Menu ➜ [My Colors Off icon]* (My Colors Off).

See Menus and Settings (p. 26).



* Default setting.

- Use the ◀ or ▶button to select a My Colors mode.
- **[Custom Color icon] Mode**
  See *Setting the Camera to a Custom Color Mode* (p. 92).
- **Modes other than [Custom Color icon]**
  Press the **FUNC.** button. The display will return to the shooting screen and you can shoot.

2 Shoot.

Setting the Camera to a Custom Color Mode

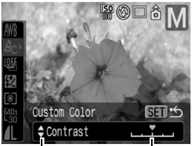
1 [Custom Color icon] (Custom Color) ➜ SET button.

See Menus and Settings (p. 26).



2 **Use the ▲ or ▼ button to select [Contrast], [Sharpness], [Saturation], [Red], [Green], [Blue] or [Skin Tone] and the ◀ or ▶ button to adjust it.**

- The altered color will display.



3 **Press the SET button.**

- This completes the setting.

Switching between Flash Adjustment Settings Shooting

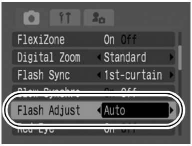
Shooting Mode: P Tv Av M

Although the built-in flash and an externally mounted flash* will fire with automatic flash adjustments (except in the M mode), it is also possible to set them so that it fires without any adjustments.

* Speedlite 220EX/430EX/580EX II

1 **(Rec.) Menu → [Flash Adjust] ▶ [Auto]*/[Manual].**

See Menus and Settings (p. 27).



* Default setting.

- When [Flash Adjust] is set to [Manual], the flash output can be controlled (p. 94).

Advanced Shooting Functions

Compensating the Flash Adjustment/ Flash Output

Shooting Mode AUTO SCN P Tv Av M

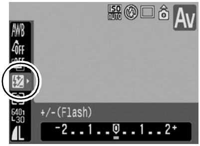
Flash Exposure Compensation	• When the shooting mode is set to , P or when [Flash Adjust] is set to [Auto] (p. 93) in Tv or Av mode, settings can be adjusted in 1/3-stop increments in the range of -2 to +2 stops. • You can combine the flash exposure compensation with the camera's exposure compensation function to achieve creative effects which compensate for background exposure.
Flash Output	• When Shooting mode is set to M or when [Flash Adjust] is set to [Manual] in Tv or Av mode (p. 93), the flash output can be controlled in three steps, starting from FULL, when shooting. When an externally mounted flash is attached, its flash output can be controlled (From 1/1 (full power) to 1/64 in 1/3 steps).

1 FUNC. Menu ➜ (+/- (Flash))/ (Flash Output).

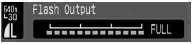
See Menus and Settings (p. 26).

* Default setting.

- Adjust the compensation/output using the ◀ or ▶ button and press the **FUNC.** button.



e.g. [Flash Adjust] set to [Auto]



e.g. [Flash Adjust] set to [Manual]

Switching the Timing at which the Flash Fires

Shooting Mode: AUTO, SCN, P Tv Av M

1st-curtain	The flash fires right after the shutter opens, regardless of the shutter speed. Usually, the 1st-curtain is used when shooting.
2nd-curtain	The flash fires right before the shutter closes. Compared with the 1st-curtain, the flash fires later and allows you to shoot images in which, for example, a car's taillights seem to trail off behind.

1 (Rec.) Menu → [Flash Sync] → [1st-curtain]*/[2nd-curtain].

See Menus and Settings (p. 27).



Image shot with the 1st-curtain setting



Image shot with the 2nd-curtain setting

* Default setting.

C Saving Custom Settings

Shooting Mode	AUTO SCN P Tv Av M

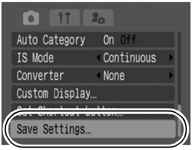
You can save frequently used shooting modes and various shooting settings to the C (Custom) mode. When necessary, you can then shoot images with previously saved settings by simply turning the mode dial to C. Settings that are not memorized when the shooting mode is changed or when the power is turned off (such as continuous shooting or self-timer) are also remembered.

1 Switch to the shooting mode you wish to save and set the settings.

- Functions which can be saved in C
  - Shooting mode (P, Tv, Av, M)
  - Items which can be set in P, Tv, Av and M modes (p. 199)
  - Rec. menu settings
  - Zoom location
  - Manual focus location
- To change some of the settings saved in C (other than shooting mode), select C.

2 (Rec.) Menu → [Save Settings].

See Menus and Settings (p. 27).



3 [OK] → SET button.

- The setting contents do not influence other shooting modes.
- Saved settings can be reset (p. 36).

Registering Settings to the Shortcut Button

Shooting Mode	AUTO, SCN, P, Tv, Av, M (all modes)

One frequently used function can be registered to the (Shortcut) button. You can register the following functions.

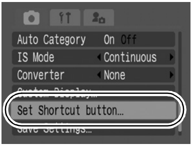
Menu Item	Page
Not Assigned*	–
Light Metering	p. 78
White Balance	p. 88
Custom White Balance	p. 89
Digital Tele-converter	p. 40
AEL AE Lock	p. 84
AFL AF Lock	p. 74
Display Off	p. 33

* Default setting.

Registering a Function

1 (Rec.) Menu → [Set Shortcut button].

See Menus and Settings (p. 27).



2 Use the ▲, ▼, ◀ or ▶ button to select the function you wish to register → SET button.

- If ⃠ appears on the lower right of the icon, you can still register this function but pressing the shortcut button will not activate the function in the current shooting mode.



Mode dial set to AUTO



To Cancel the shortcut button:

Select [shortcut cancel icon] in Step 2.

Using the Shortcut Button

1 Press the [shortcut] button.



- Each press of the [shortcut] button cycles between setting values of the registered function.
  - For WB and [metering], the setting screen appears.
  - For [custom white balance], a white balance reading is taken when you press the [shortcut] button. A frame will not be displayed, so center the piece of white paper or cloth in the LCD monitor before pressing the button.
  - For AEL, pressing the [shortcut] button sets AE lock*. When shooting movies**, AE is set again and then locked (exposure compensation is disabled).
  - For AFL, pressing the [shortcut] button sets AF lock*. When shooting movies, AF is set again and then locked.
  - For [display off], pressing the [shortcut] button turns off the LCD monitor (or viewfinder). The display turns on again with any button operation.

* Lock is released after one image is shot.

** Does not function when the exposure compensation bar is displayed.

- Functions that are not available in the current shooting mode will not appear even if you press the [shortcut] button.

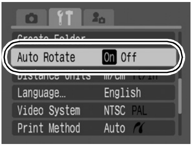
Setting the Auto Rotate Function

Shooting Mode	AUTO, P, Tv, Av, M, SCN

Your camera is equipped with an Intelligent Orientation sensor that detects the orientation of an image shot with the camera held vertically and automatically rotates it to the correct orientation when viewing it in the LCD monitor.

1 (Set up) Menu ➧ [Auto Rotate] ➧ [On]*/[Off].

See Menus and Settings (p. 27).



* Default setting.

- When the Auto Rotate function is set to [On] and the LCD monitor is set to the detailed display mode during shooting, (normal), (right end is down) or (left end is down) will appear in the display.

- This function may not operate correctly when the camera is pointed straight up or down. Check that the arrow is pointing in the right direction and if it is not, then set the Auto Rotate function to [Off].
- Even if the Auto Rotate function is set to [On], the orientation of images downloaded to a computer will depend upon the software used to download the images.

When the camera is held vertically to shoot, the Intelligent Orientation sensor judges the upper end to be "up" and the lower end to be "down". It then regulates the optimal white balance, exposure and focus for vertical photography. This function operates regardless of the on/off status of the Auto Rotate function.

Creating an Image Destination (Folder)

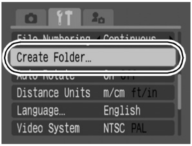
Shooting Mode	AUTO SCN P Tv Av M

You can create a new folder at any time and the recorded images will be automatically saved to that folder.

Create New Folder	Creates a new folder the next time you shoot images. To create an additional folder, insert the check mark again.
Auto Create	You can also specify a date and time if you wish to create a new folder using a shooting time after the specified date and time.

1 (Set up) Menu ➜ [Create Folder].

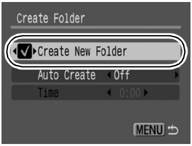
See Menus and Settings (p. 27).



Creating a Folder the Next Time You Shoot

2 Use the ◀ or ▶ button to check mark [Create New Folder] ➜ MENU button.

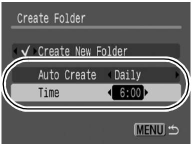
- displays in the LCD monitor (or viewfinder). The symbol will cease to display after the new folder is created.



Setting the Day or Time for Automatic Folder Creation

2 **Select a day for the [Auto Create] option and a time in the [Time] option ➜ MENU button.**

- displays in the LCD monitor (or viewfinder) when the specified time arrives. The symbol will cease to display after the new folder is created.



Up to 2000 images can be saved into one folder. A new folder will automatically be created when you record more than that number even if you are not creating new folders.

Resetting the File Number

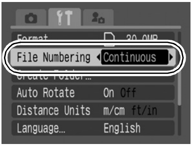
Shooting Mode AUTO SCN P Tv Av M

The images you shoot are automatically assigned file numbers. You can select how the file number is assigned.

1 **(Set up) Menu → [File Numbering] → [Continuous]*/[Auto Reset].**

See Menus and Settings (p. 27).

* Default setting.

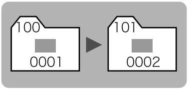
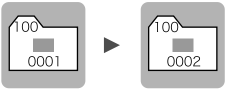
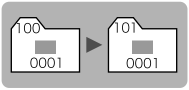
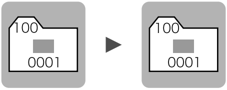


File Number Reset Function

Continuous	A number one higher than the last one recorded is assigned to the next image. This is convenient for managing all your images together on a computer because you avoid file name duplication when changing folders or memory cards*. * When a blank memory card is used. If a memory card with recorded data is used, the 7-digit number for the last recorded folder and image is compared with the last one on the card, and the larger of the two is utilized as the basis for new images.
Auto Reset	The image and folder number are reset to the starting value (100-0001)*. This is convenient for managing images on a folder-by-folder basis. * When a blank memory card is used. If a memory card with recorded data is used, the number following the 7-digit number for the last recorded folder and image on the card is utilized as the basis for new images.

File and Folder Numbers

Recorded images are assigned consecutive file numbers starting with 0001 and ranging up to 9999, while folders are assigned numbers starting with 100 and ranging up to 999. Up to 2000 images can be saved into a single folder.

	New Folder Created	Memory Card Exchanged for Another
Continuous	Memory Card 1 	Memory Card 1 Memory Card 2 
Auto Reset	Memory Card 1 	Memory Card 1 Memory Card 2 

- Images may be saved to a new folder when there is insufficient free space even if the total number of images in a folder is less than 2000 because the following types of images are always saved together into the same folder.
  - Images from continuous shooting
  - Self-timer images (custom)
  - Movies (still images of movies)
  - Stitch Assist mode images
  - Focus Bracketing
  - AEB shooting
  - Color Accent/Color Swap still images (when [Save Original] is set to [On])
- Images cannot be played back when the folder numbers are duplicated or image numbers are duplicated within folders.
- Please refer to the *Software Starter Guide* for information regarding folder structures or image types.

Playback/Erasing

Please also see the *Basic Camera User Guide* (p. 20).

Viewing Magnified Images

1 Press the zoom lever toward 🔍.

- SET ⇆ will display and a magnified portion of the image will display.
- You can change the magnification level with the zoom lever.
- Images can be magnified up to a factor of approximately 10x.



Approximate location of the displayed area

2 Use the ▲, ▼, ◀ or ▶ button to move around the image.

- If you press the **SET** button once more, the camera switches to image advance mode and SET ⇆ will display. You can use the ◀ or ▶ button to advance to the next or previous image at the same level of magnification. The image advance mode cancels when you press the **SET** button again.

To Cancel the Magnified Display:

Press the zoom lever toward ▦. (You can also cancel it immediately by pressing the **MENU** button.)

> Movie frames and index playback images cannot be magnified.

Viewing Images in Sets of Nine (Index Playback)

1 Press the zoom lever toward .

- Up to nine images can be viewed at once in index playback.
- Use the ▲, ▼, ◀ or ▶ button to change the image selection.



To Return to Single Image Playback:

Press the zoom lever toward .

Switching between Sets of Nine Images

The jump bar will display if you press the button while in index playback and you can switch the display between sets of nine images.



- Pressing the zoom lever toward also switches the display. Use the ◀ or ▶ button to move to the previous or next set of 9 images.
- Hold the **SET** button down and press the ◀ or ▶ button to jump to the first or last set.

To Cancel the Jump Bar:

Press button.

Organizing Images by Category (My Category)

You can organize images into prepared categories (People, Scenery, Events, Category 1–3, To Do). Category information recorded with the [Auto Category] function (p. 30) can also be edited. At the category level, you can perform the following.

- Image searches (p. 107) • Slide Show (p. 123)
- Protect (p. 128) • Erase (p. 132)
- Configure print settings (p. 134)

1 (Play) Menu ➜ .

See Menus and Settings (p. 27).



- In playback mode, you can press the button to display the screen in Step 2 directly.

2 Use the ◀ or ▶ button to select an image to classify and the ▲ or ▼ button to select a category and press the SET button.



- You can put the same image into more than one category.
- You can set in index playback.
- You can cancel the classification by pressing the **SET** button again.

- When erasing, printing or compiling a slide show, it is convenient to categorize images in the [To Do] category.
- You can organize movies into the categories.

Jumping to Images

When you have many images recorded onto a memory card, it is handy to use the search keys below to jump over images to find the object of your search.

	Shot Date	Jumps to the first image of each shooting date.
	My Category	Displays the first image in each category.
	Folder	Displays the first image in each folder.
	Movie	Jumps to a movie.
	By 10 images	Jumps over 10 images at a time.
	By 100 images	Jumps over 100 images at a time.

1 In single image playback mode, press the button.

- The camera will switch to jump search mode.

2 Use the ▲ or ▼ button to select a search key.

- The screen sample will vary slightly according to the search key.
- You can show/hide image information using the **DISP.** button.

Image Information



Playback/Erasing

3 Display the Images.

- ⬤ / ⬤ :
  - Press the ◀ or ▶ button.
  - Press the **MENU** button to return to single image playback.
- ⬤ / ⬤ / ⬤ / ⬤ :
  Use the ◀ or ▶ button to select a date, category, folder or movie for playback and press the **SET** button.
  - The camera will switch to defined playback mode and play back only images corresponding to the search key.
  - Press the ⬤ button to cancel defined playback mode.

Select the search key



Defined playback mode will be canceled under the following conditions:

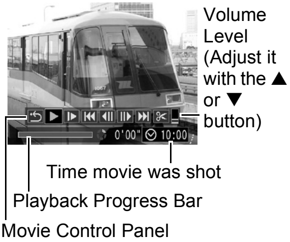
- When images or movies are placed in categories.
- When images with My Colors effects, images with Red-Eye correction or edited movies are saved as a new file.
- When erasing an image with [Erase] in the ▶ (Play) menu.

Viewing Movies

Movies cannot be played in the index playback mode.

1 **Display a movie and press the SET button.**

- Images with a SET icon are movies.
- The movie control panel appears.



2 **Select ▶ (Play) and press the SET button.**

- The movie will pause if you press the **SET** button during playback. It will resume when you press the button again.
- When playback ends, the movie stops at the last frame displayed. Press the **SET** button to display the movie control panel.
- You can switch between showing/hiding the playback progress bar by pressing the **DISP.** button while playing a movie.
- If playback was halted partway through in the prior viewing session, playback will resume from the last frame displayed.

Operating the Movie Control Panel

↩	Returns to single image playback
🖶	Print (An icon will display when a printer is connected. See the *Direct Print User Guide* for details.)
▶	Play
▮▶	Slow Motion (You can use the ◀ button to slow down or the ▶ button to speed up playback.)
⏮	Displays the first frame
◀▮▮	Previous Frame (Rewinds if the **SET** button is held down.)
▮▮▶	Next Frame (Fast Forwards if the **SET** button is held down.)
⏭	Displays the last frame
✂	Edit (Switches to movie editing mode.) (p. 111)

- Use the television's controls to adjust the volume when playing a movie on a TV set (p. 130).
- The sound cannot be played in slow motion playback.

Editing Movies

You can delete portions of recorded movies.

Movies 1 second or longer before editing can be edited in 1-second increments, but those that are protected or less than 1 second long cannot be edited.

1 **Select (Edit) in the movie control panel and press the SET button.**

- The movie editing panel and the movie editing bar will display.

Movie Editing Panel



Movie Editing Bar

2 **Use the ▲ or ▼ button to select (Cut Beginning) or (Cut End) and the ◄ or ► button to specify the cut point ( ).**

- To check a temporarily edited movie, select (Play) and press the **SET** button.
- Selecting (Exit) cancels the edit and restores the movie control panel.

3 **Select (Save) and press the SET button.**

Playback/Erasing

4 Select [New File] or [Overwrite] and press the SET button.

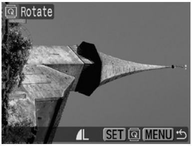


- [New File] saves the edited movie under a new file name. The pre-edit data is left unchanged. Note, if you press the **SET** button while saving the movie, saving is cancelled.
- [Overwrite] saves the edited movie with its original name. The pre-edit data is lost.
- When there is not enough space left on the memory card, only [Overwrite] can be selected, and ▲ appears on the counter of the movie editing bar.

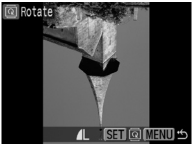
Depending on the movie's file size, it may take some time to save an edited movie. If the battery runs out of charge partway through, edited movie clips cannot be saved. When editing movies, it is recommended that you use four new size-AA alkaline batteries, fully charged size-AA NiMH batteries, or the separately sold Compact Power Adapter CA-PS700 (p. 166).

Rotating Images in the Display

Images can be rotated clockwise 90° or 270° in the display.



Original



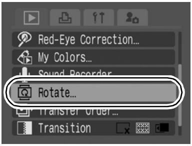
90°



270°

1 (Play) Menu ➜ .

See Menus and Settings (p. 27).



2 Use the ◀ or ▶ button to select an image to rotate and press the SET button to rotate it.

- Cycle through the 90°/270°/original orientations with each press of the **SET** button.
- This also can be set in the index playback mode.

When images are downloaded to a computer, the orientation of images rotated by the camera will depend upon the software used to download the images.

Playback with Transition Effects

You can select the transition effect displayed when switching between images.

	No transition effect.
	The displayed image darkens and the next image gradually brightens until it is displayed.
	Press the ◀ button to have the previous image display from the left and the ▶ button to have the next image display from the right.

1 **(Play) Menu ➜ ➜ / * / .**

See Menus and Settings (p. 27).

* Default setting.



Red-Eye Correction Function

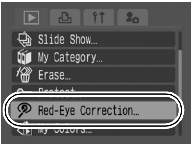
You can correct red eyes in recorded images. However, red eyes may not be automatically detected in some images or the results may not turn out as you intended.

Examples:

- Faces near the screen edges or faces that appear extremely small, large, dark or bright in relation to the overall image.
- Faces turned to the side or at a diagonal, or faces with a portion hidden.

1 (Play) Menu ➜ .

See Menus and Settings (p. 27).

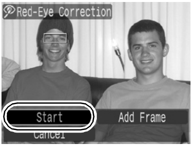


2 Use the ◀ or ▶ button to select an image you wish to perform red-eye correction on and press the SET button.



- A frame will be displayed automatically at the position where red-eye is to be corrected.
- If red-eye is not automatically detected, select [Add Frame] with the ◀ or ▶ button and press the **SET** button (p. 117).

3 Select [Start] and press the SET button.



Playback/Erasing

4 Select [New File] or [Overwrite] and press the SET button.



- [New File]: saves the image under a new file name. The original file remains as is. The newly saved image file is saved as the last image of the photographed images.
- [Overwrite]: saves the new image under the original file name. The original image is overwritten.
- If you selected [New File], proceed to Step 5.

5 Press the MENU button and select [Yes] or [No], then press the SET button.

- Selecting [Yes] displays the corrected image, while [No] returns you to the Play menu.

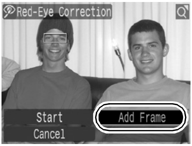
- Red-eye correction cannot be performed on movies.
- Overwriting cannot be performed on protected images.

- When there is not enough space left on the memory card, red-eye correction cannot be performed.
- Although you can apply red-eye correction any number of times to an image, the image quality will gradually deteriorate with each application.
- Since the correction frame will not appear automatically on images that have already been corrected once with the [Red-Eye Correction], use the [Add Frame] option to correct them.

Adding Correction Frames

You can add up to a maximum of 35 correction frames.

1 **Use the ◀ or ▶ button to select [Add Frame] and press the SET button.**



2 **Use the ▲, ▼, ◀ or ▶ button to move the frame and press the SET button.**

- You can change the size of the frame with the zoom lever.



Adding My Colors Effects

You can add effects to recorded images (stills only) using the My Colors function. The following selection of My Colors effects is available. For details, see p. 91.

	Vivid		Lighter Skin Tone
	Neutral		Darker Skin Tone
	Sepia		Vivid Blue
	B/W		Vivid Green
	Positive Film		Vivid Red

1 **(Play) Menu ➜ .**

See Menus and Settings (p. 27).



2 **Use the ◀ or ▶ button to select an image, and press the SET button.**



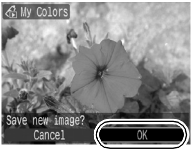
3 **Use the ◀ or ▶ button to select the My Colors type, and press the SET button.**

- The displayed image will reflect the My Colors effect.
- You can press the zoom lever toward to check the image at a higher magnification. While the image is zoomed, you can press the **SET** button to switch between the image transformed with the My Colors effect and the original non-transformed image.



4 **Select [OK], and press the SET button.**

- The newly saved image transformed with the My Colors effect will be the last one in the list.
- To continue adding effects to other images, repeat the procedures from Step 2 onward.



5 Press the MENU button and select [Yes] or [No], then press the SET button.

- Selecting [Yes] displays the image transformed with the My Colors effect, while [No] returns you to the Play menu.



- The My Colors function will not work if there is insufficient space on the memory card.
- Although My Colors effects can be added any number of times to an image, the image quality will gradually deteriorate with each application and the intended colors may not be achieved.
- Color in images taken using My Colors (p. 91) in shooting mode and images edited with the My Colors function in playback mode may differ slightly.

Attaching Sound Memos to Images

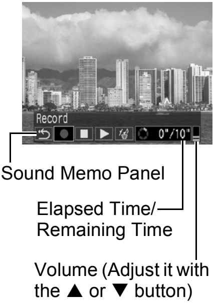
In playback mode (including single image playback, index playback, magnified playback, the review immediately after shooting in shooting mode (*Basic Guide* p. 10) and while confirming the focus immediately after the shooting (p. 48)) you can attach sound memos (up to 1 minute) to an image. The sound data is saved in WAVE format (stereo).

1 Press the 🎙 button while playing back images.

- The sound memo control panel will display.

2 Use the ◀ or ▶ button to select ◯ (Record) and press the SET button.

- The elapsed time and the remaining time display.
- Pressing the **SET** button pauses the recording. Pressing it again resumes recording.
- Up to 1 minute of recordings can be added to any one image.
- The sound mode can be changed (p. 56).



Sound Memo Panel

↩	Exit
◯	Record
◻	Pause
▶	Play
🗑	Erase Select [Erase] in the confirmation screen and press the **SET** button.
▯	Volume (0-5 levels)

- You cannot attach sound memos to movies.
- Sound memos for protected images cannot be erased.

Sound-Only Recording (Sound Recorder)

You can record sound only, without images, for up to two hours at one time.

1 (Play) Menu ➔ .

See Menus and Settings (p. 27).



2 Select (Record) and press the SET button.



Available Recording Time

Sound Control Panel

- Recording time will be displayed.
- Use the ▲ or ▼ button to change the sample rate. Sound quality will improve in the order of [11.025kHz], [22.050kHz], [44.100kHz]*, but the recorded file size will also increase respectively.

  * Default setting.
- When pressing the **SET** button, recording will pause. Pressing the button once again will resume recording.
- Pressing the shutter button halfway or pressing the movie button will stop sound recording and switch the camera to shooting mode.
- The sound mode can be changed (p. 56).

Playback/Erasing

Sound Recorder Panel

Use the ◀ or ▶ button to select and press the **SET** button.

⮌	Exit
●	Record
■	Pause
▶	Play (Use the ◀ or ▶ button to select a sound and press the **SET** button.)
◀◀	Rewind (Hold the **SET** button to rewind (no sound plays).)
▶▶	Fast Forward (Hold the **SET** button to fast forward (no sound plays).)
🗑	Erase (Select [Erase] or [Erase All] and in the confirmation screen press the **SET** button.)
O-п	Protect (You can protect important sounds from accidental erasure. Press the **SET** button to set/remove protection.)
▯	Volume (Press the ▲ or ▼ button to adjust the volume.)

- See *Estimated Sound Recorder File Sizes and Recording Times* (p. 187).
- When the memory cards fills, recording will automatically stop.
- In the playback mode, the Sound Control Panel can be displayed by holding the 🎙 button.
- For details on the sound number and folder number, refer to the *Software Starter Guide*.

Automated Playback (Slide Shows)

Automated Playback of Memory Card Images.

* Image settings for slide shows are based on the Digital Print Order Format (DPOF) standard (p. 182).

	All Images	Plays all images on a memory card in order.
	Date	Plays images bearing a specified date in order.
	My Category	Plays the images in the selected category in order.
	Folder	Plays images in a specified folder in order.
	Movies	Plays movie files only, in order.
	Stills	Plays still images only, in order.
to	Custom 1-3	Plays the images selected for each slide show, Custom 1, Custom 2 or Custom 3, in order (p. 126).

1 (Play) Menu ➔ .

See Menus and Settings (p. 27).



2 Use the ▲, ▼, ◀ or ▶ button to select , , , , , or - .

- , , : select a date, category or folder to play back (p. 125).
- For , or : select the images to be played back (p. 126).
- If you want to add a transition effect to play back images, use the ▲ button to select [Effect] and choose the type of effect with the ◀ or ▶ button (p. 124).



3 Select [Start] and press the SET button.



- The following functions are available during slide shows.
  - Pausing/resuming the slide show: press the **SET** button.
  - Fast forwarding/rewinding the slide show: press the ◀ or ▶ button (continue to hold the button to switch between images more rapidly).
  - Stopping the slide show: press the **MENU** button.

Transition Effects

You can select the transition effect used when one image is replaced by another.

	No transition effect.
*	The new image gradually brightens as it moves upward from the bottom.
	The new image first appears in a cross shape and gradually expands to display the full image.
	Portions of the new image move horizontally, then the image expands to display the full image.

* Default setting.

In single image playback mode, you can start a slide show from the current image displayed by holding the **SET** button while you press the button. Please note that if you do this while the last image shot is displayed, the slide show will start from the first image using the same date.

Select a date/category/folder to playback (/ /)

1 **Select , or and press the SET button.**

2 **Use the ▲ or ▼ button to select a date/category/folder to play back and press the SET button.**

- Pressing the **SET** button again cancels the setting.
- You can select multiple dates, categories, or folders.
- They will play back in the order you select them.
- Use the ◀ or ▶ button to confirm each date, category or folder image.
- Pressing the **MENU** button cancels the setting.

Date



Category



Folder



Selecting Images for Playback (★1-★3)

Select only the images that you wish to play back and save them as a slide show (Custom 1, 2 or 3). Up to 998 images can be selected. They will be played back in their order of selection.

1 Select ★1, ★2 or ★3 and press the SET button.

- Only the ★1 icon will display at first. When you set ★1, the icon will change to ★1√ and ★2 will display. ★2 and ★3 will change in the same way when they are set.

2 Use the ◀ or ▶ button to move between images for playback and the SET button to select or deselect them.

- You can also select images in the index playback mode.
- Pressing the **MENU** button cancels the setting.

Check mark indicating selection

Number indicating the selection order



Selecting All Images:

1. After selecting ★1-★3 in step 1, use the ▲ button to select [All Images] and press the **SET** button.
2. Use the ▲ button to select [Mark all], press the **SET** button.
3. Use the ▶ button to select [OK] and press the **SET** button.

To deselect all images, select [Reset].

Adjusting the Play Time and Repeat Settings

● Play Time

Sets the duration that each image displays. Choose between 3* – 10 seconds, 15 seconds and 30 seconds. (Displaying time can vary slightly depending on the image.)

* Default setting.

● Repeat

Sets whether the slide show stops when all the slides have been displayed or continues until stopped.

1 **Select [Set up] and press the SET button.**

2 **Select [Play Time] or [Repeat] and then the desired option.**

- Pressing the **MENU** button cancels the setting.



Protecting Images

You can protect important images and movies from accidental erasure.

Select	You can configure the protection settings for each image singly while viewing them.
Select by Date	You can protect the images from a specified date.
Select by Category	You can protect all images in a specified category.
Select by Folder	You can protect all images in a specified folder.
All Images	You can protect all images on a memory card.

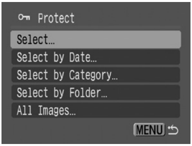
1 (Play) Menu ➔ .

See Menus and Settings (p. 27).



2 Select a method and press the SET button.

- If you select [All Images], proceed to Step 5.



3 **Select the image, date, category or folder to protect and press the SET button.**

- **[Select]**
  Use the ◀ or ▶ button to select an image and press the **SET** button.
  - Pressing the **SET** button again cancels the setting.
  - You can also protect images in the index playback mode.
  - Pressing the **MENU** button will end the setting.



Protection Icon

- **[Select by Date] [Select by Category] [Select by Folder]**
  Use the ▲ or ▼ button to select a date, category or folder and press the **SET** button.
  - A white 🔑 icon appears. However, if a portion of the images are already protected, 🔑 appears gray.
  - Pressing the **SET** button again cancels the setting.
  - You can select multiple dates, categories or folders.
  - Use the ◀ or ▶ button to confirm each date, category or folder image.



4 **For the [All Images], [Select by Date], [Select by Category] and [Select by Folder] options, press the MENU button.**

5 Select [Protect] and press the SET button.



- Selecting [Unlock] cancels protection of the selected image and returns you to Step 2.
- Selecting [Stop] cancels selection of the protected image and returns you to Step 2.
- You may cancel the operation by pressing the **SET** button during [Protect] mode.

Please note that formatting (initializing) a memory card erases all data (p. 37), including protected images and other file types. Please check the contents of a memory card before formatting it.

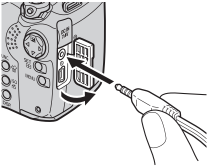
Viewing Images on a TV Set

You can use a video-compatible television as a monitor to playback images when it is connected to the camera with the supplied Stereo Video Cable STV-250N.

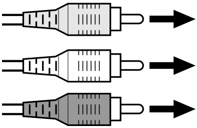
1 Turn off the camera and the TV.

2 Connect the Stereo/Video Cable to the camera's A/V OUT terminal.

- With your fingernail on the left edge of the camera's terminal cover, pull it forward to open it, and plug the Stereo/Video Cable in all the way.



3 Plug the other ends of the Stereo/Video Cable into the VIDEO IN and AUDIO IN jacks on the TV.



4 Turn on the TV and switch it to Video mode.

5 Power on the camera.

- The video output signal can be switched (NTSC or PAL) to accommodate different regional standards (p. 34). The default setting varies between regions.
  - NTSC: Japan, U.S.A., Canada, Taiwan and others
  - PAL: Europe, Asia (excluding Taiwan), Oceania and others
  - If the video system is set incorrectly, the camera output may not display properly.
- When the camera is set to shooting mode, you can take pictures while displaying images on the television.

Erasing Images

You can erase images from a memory card.

Select	Erases images after selecting them one at a time.
Select by Date	Erases images corresponding to the selected date.
Select by Category	Erases all images in the selected category.
Select by Folder	Erases all images in the selected folder.
All Images	Erases all images on a memory card.

- Note that erased images cannot be recovered. Exercise adequate caution before erasing an image.
- Protected images cannot be erased with this function.

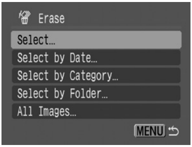
1 (Play) Menu → .

See Menus and Settings (p. 27).



2 Select an option and press the SET button.

- Proceed to Step 5 if you select [All Images].



3 Select images, a date, a category or a folder and press the SET button.

- **[Select]**
  Use the ◀ or ▶ button to select an image and press the **SET** button.
  - Pressing the **SET** button again cancels the setting.
  - You can also protect images in the index playback mode.
- **[Select by Date] [Select by Category] [Select by Folder]**
  Use the ▲ or ▼ button to select a date, category or folder and press the **SET** button.
  - Pressing the **SET** button again cancels the setting.
  - You can select multiple dates, categories or folders.
  - Use the ◀ or ▶ button to confirm each date, category or folder image.



4 Press the MENU button.

5 Select [OK] and press the SET button.

- Selecting [Stop] or [Cancel] cancels selection of the image you are about to erase and returns you to Step 2.
- Pressing the **SET** button while erasing is in progress cancels the procedure.

Please format the memory card when you want to erase not only image data but also all the data contained on the card (p. 37).

Print Settings/Transfer Settings

Setting the DPOF Print Setting

You can select images on a memory card for printing and specify the number of print copies in advance using the camera. The settings used on the camera comply with the Digital Print Order Format (DPOF) standards. This is extremely convenient for printing on a direct print compatible printer, or for sending the images to a photo developing service that supports DPOF.

The ⚠ icon may display for a memory card with print settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

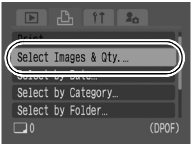
Select Images & Qty.	Configures print settings for single images as you view them.
Select by Date	Configures print settings for images corresponding to the selected date.
Select by Category	Configures print settings for images in the selected category.
Select by Folder	Configures print settings for images in the selected folder.
Select All Images	Configures print settings for all images.
Clear All Selections	Removes all print settings from images.

Print settings are configured for each image individually. With the [Select Images & Qty.] option, you can only set the number of copies to print when the [Print Type] option is set to [Standard] or [Both] (p. 137).

1 (Print) Menu ➜ Select a menu item.

See Menus and Settings (p. 27).

- When selecting [Select All Images] go to Step 4.



2 Select the image, date, category or folder to print and press the SET button.

- **[Select Images & Qty.]**
  Selection methods differ for the Print Type settings (p. 137).

  - **Standard( )/Both ( ):**
    Use the ◀ or ▶ button to select an image, press the **SET** button and use the ▲ or ▼ button to select the number of print copies (up to 99).

Number of Print Copies



  - **Index ( ):**
    Use the ◀ or ▶ button to select an image and the press the **SET** button to select or deselect it.

Index Print Selection



  - You can also select images in the index playback mode.
  - Pressing the **MENU** button will end the setting.

- **[Select by Date] [Select by Category] [Select by Folder]**
  Use the ▲ or ▼ button to select a date, category or folder and press the **SET** button.

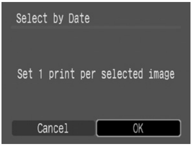


  - Pressing the **SET** button again cancels the setting.
  - You can select multiple dates, categories or folders.
  - Pressing the ◀ or ▶ button will allow you to check the images by date, category or folder.

3 For the [Select by Date], [Select by Category] and [Select by Folder] options, press the MENU button.

4 Select [OK] and press the SET button.

- Selecting [Cancel] cancels print settings of the selected image and returns you to Step 1.



- The output of some printers or photo developing services may not reflect the specified print settings.
- Print settings cannot be set for movies.

- Images are printed in order according to the file number.
- A maximum of 998 images can be selected.
- When [Print Type] is set to [Both], the number of copies can be set. When it is set to [Index], the number of copies cannot be set. Only one copy will be printed.
- If you are connected to a printer, the button will light blue while you are selecting images. You can start printing at this point by pressing the button, confirming that [Print] is selected and pressing the **SET** button.

Setting the Print Style

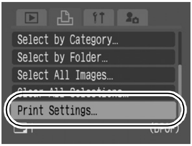
After setting the print style, select the images for printing.
The following settings can be selected.

*Default setting.

Print Type	Standard*		Prints one image per page.
	Index		Prints the selected images together at a reduced size in an index format.
	Both		Prints the images in both the standard and index formats.
Date (On/Off*)			Adds the date to the print.
File No. (On/Off*)			Adds the file number to the print.
Clear DPOF data (On*/Off)			Clears all print settings after the images print.

1 **(Print) Menu → [Print Settings] → SET button.**

See Menus and Settings (p. 27).



2 **Use the ▲ or ▼ button to select [Print Type], [Date], [File No.] or [Clear DPOF data] and then use the ◀ or ▶ button to specify the settings.**

- The Date and File No. settings change according to the Print Type as follows.
  - [Index]:
    [Date] and [File No.] cannot be set to [On] at the same time.
  - [Standard] or [Both]:
    [Date] and [File No.] can be set to [On] at the same time, however, the printable information may vary between printers.
- Dates print in the style specified in the [Date/Time] menu (p. 33, *Basic Guide* p. 8).
- Do not set the date in the DPOF print settings when printing images that have had the date embedded with the [Date Stamp] function. This may cause the date to be printed twice.

Setting the DPOF Transfer Settings

You can use the camera to specify settings for images before downloading to a computer. Refer to the *Software Starter Guide* for instructions on how to transfer images to your computer. The settings used on the camera comply with the Digital Print Order Format (DPOF) standards.

The ⚠ icon may display for a memory card with transfer settings set by a different DPOF-compliant camera. These settings will be overwritten by those set by your camera.

1 (Play) Menu ➔ ➔ SET button.

See Menus and Settings (p. 27).



Single Images

2 Select [Order] and press the SET button.

- Selecting [Reset] cancels all transfer order settings.



Print Settings/Transfer Settings

3 **Use the ◀ or ▶ button to select an image to transfer and press the SET button.**

- Pressing the **SET** button again deselects the setting.
- You can also select images in the index playback mode.

Transfer Selection



All the Images on a Memory Card

2 **Select [Mark all] and press the SET button.**

- Selecting [Reset] cancels all transfer order settings.



3 **Select [OK] and press the SET button.**

- Images are transferred in order according to the file number.
- A maximum of 998 images can be selected.

Customizing the Camera (My Camera Settings)

My Camera allows you to customize the start-up image and startup, operation, self-timer and shutter sounds. You can change and register these settings, enabling you to customize the camera to suit your own tastes.

Changing My Camera Settings

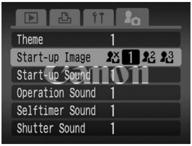
1 (My Camera) Menu → Menu Item.

See Menus and Settings (p. 27).



2 Use the ◀ or ▶ button to select the contents you wish to set.

- Select [Theme] to set all to the same settings.



Registering My Camera Settings

Images recorded onto the memory card and newly recorded sounds can be added as My Camera settings to the [2] and [3] menu items. You can also use the supplied software to upload your computer's images and sounds to the camera.

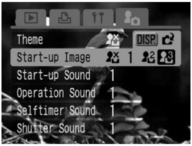
A computer is required to restore the My Camera settings to the defaults. Use the supplied software (ZoomBrowser EX/ ImageBrowser) to restore the default settings to the camera.

1 **(My Camera) Menu ➜ Menu Item to register.**

See Menus and Settings (p. 27).



2 **Select 2 or 3 and press the DISP. button.**



3 Select an image or record a sound.

- **Start-up Image**
  Use the ◀ or ▶ button to select the image you wish to register and press the **SET** button.



- **Start-up, Operation, Self-timer and Shutter Sounds**
  Select (Record) and press the **SET** button. After recording, select (Register) and press the **SET** button.
  - Recording will automatically stop when the recording time elapses.
  - To play it, select (Play).
  - To return the My Camera menu, press (Exit).



4 Select [OK] and press the SET button.

- To cancel registering, select [Cancel].



- The following cannot be registered as My Camera settings.
  - Movies
  - Sounds recorded with the sound memo function (p. 119) and sound recorder (p. 121)
- The prior setting is erased when a new My Camera setting is added.

See the supplied *Software Starter Guide* for more information on creating and adding to the My Camera data.

Troubleshooting

Camera

Camera will not operate.	
Power is not turned on.	● Turn the camera on (*Basic Guide* p. 9).
Memory card slot/battery cover is open.	● Confirm that the memory card slot/ battery cover is securely closed (*Basic Guide* p. 5).
Batteries are loaded in the wrong direction.	● Reload the batteries in the correct direction (*Basic Guide* p. 5).
Batteries are not the right type.	● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries (p. 159).
Battery charge is low and the camera will not operate. ("Change the batteries" message displays).	● Replace the camera batteries with four unused or fully charged batteries (*Basic Guide* p. 5). ● Use the Compact Power Adapter CA-PS700 (sold separately) (p. 166).
Poor contact between camera and battery terminals.	● Wipe the battery terminals with a clean dry cloth. ● Reload the batteries several times.
Sounds come from the camera interior.	
The camera's horizontal/ vertical orientation was changed.	● The camera's orientation mechanism is operating. There is no malfunction.

When the power is turned on

“Card locked!” message appears.	
The SD memory card or SDHC memory card’s write protect tab is set to “Write protect”.	● When recording to, erasing from or formatting the memory card, slide the write protect tab upward (p. 161).
The Date/Time menu appears.	
The lithium coin battery charge is low.	● Replace the lithium date battery (p. 177).

LCD monitor/Viewfinder

Camera screen is black at start-up	
Incompatible image has been selected as the startup image in the My Camera Settings.	● Change the start-up image in the My Camera Settings (p. 141) or use the supplied ZoomBrowser EX or ImageBrowser program to restore the default settings. See *ZoomBrowser EX/ImageBrowser Software User Guide* (PDF) for ZoomBrowser EX or ImageBrowser.
The display darkens.	
The image in the LCD monitor will darken in strong sunlight or bright light.	● This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This image will not be recorded when shooting still images, but it will be recorded when shooting movies.

Display flickers.

Display flickers when shot under fluorescent lighting.	● This is not a camera malfunction (flickering recorded in movies, but not in still images).

A bar of light (red, purple) appears on the LCD Monitor

Sometimes appears when shooting a bright subject, such as the sun or other light source.	● This is a normal occurrence in devices containing CCDs and does not constitute a malfunction. This bar of light will not be recorded when shooting still images, but it will be recorded when shooting movies.

appears.

A slow shutter speed has likely been selected because of insufficient lighting.	● Set the Image Stabilizer to other than [Off] (p. 44). ● Raise the ISO speed (p. 80). ● Set the Auto ISO Shift to [On] (p. 81). ● Raise the flash to any setting other than (flash off) (*Basic Guide* p. 14). ● Set the self-timer (*Basic Guide* p. 18) and secure the camera to something, such as a tripod. ● If you have an externally mounted flash, attach it (p. 172).

appears.

This displays when using a memory card that has print settings, transfer settings or slide show image settings set by other DPOF-compliant cameras.	● These settings will be overwritten by those set by your camera (p. 134).

Noise displays./Subject's movements are irregular.	
Camera automatically lightened the image displayed on the LCD monitor (or viewfinder) to make it easier to see when shooting in a dark area (p. 13).	● There is no effect on the recorded image.

Shooting

Camera will not record.	
Camera is in Playback or computer/printer connection mode.	● Turn the mode lever to the left or press the shutter button halfway to switch to (Shooting). ● During a computer or printer connection, disconnect the interface cable before switching the camera to Shooting mode.
Flash is charging. (Blinking white on LCD monitor/in viewfinder).	● When the flash is charged, the icon stops blinking and lights steadily on LCD monitor (in viewfinder). Shooting is now possible.
Memory card is full.	● Insert a new memory card (*Basic Guide* p. 5). ● If required, download the images to a computer and erase them from the memory card to make space.

Memory card is not formatted correctly.	● Format the memory card (p. 37). ● If reformatting does not work, the memory card logic circuits may be damaged. Consult the nearest Canon Customer Support Help Desk.
SD memory card or SDHC memory card is write protected.	● Slide the write protect tab upward (p. 161).
Image is blurred or out of focus.	
The camera moves when the shutter button is pressed.	● Confirm the procedures in " appears" (p. 146).
AF-assist Beam is set to [Off].	● In dark places where it is difficult for the camera to focus, the AF-assist Beam will emit to assist focusing. As the AF-assist Beam will not function when turned off, set it [On] to activate it (p. 29). Take care not to obstruct the AF-assist Beam with your hand when used.
Subject is out of focal range.	● Shoot with the subject at the correct focusing distance (p. 180).
The subject is hard to focus on.	● Use the focus lock, AF lock or manual focus to shoot (p. 73).
Subject in recorded image is too dark.	
Insufficient light for shooting.	● Raise the flash and set to (Flash on) (*Basic Guide* p. 15). ● Use a high-output externally mounted flash.
The subject is underexposed because the surroundings are too bright.	● Set the exposure compensation to a positive (+) setting (p. 83). ● Use the AE lock or spot metering function (p. 84, 78).

Subject is too far away for flash to reach.	● Shoot within correct flash range of the subject when using the built-in flash (p. 181). ● Raise the ISO speed and then shoot (p. 80).

Subject in recorded image is too bright, or image flashes white.

Subject is too close, making the flash too strong.	● Shoot within correct flash range of the subject when using the built-in flash (p. 181). ● Adjust the flash output with the flash exposure compensation function (p. 94). ● Set the safety FE to [On] (p. 67).
The subject is overexposed because the surroundings are too dark.	● Set the exposure compensation to a negative (-) setting (p. 83). ● Use the AE lock or spot metering function (pp. 84, 78).
Too much light is shining directly into the camera, or is being reflected off the subject.	● Change the shooting angle.
Flash is set to on.	● Push down the flash to (Flash off) (*Basic Guide* p. 15).

Image contains noise.

ISO speed is too high.	● Higher ISO speeds or (High ISO Auto) may increase image noise. For higher image quality, use as low an ISO speed as possible (p. 80). ● In , , , , and modes in the SCN mode, the ISO speed increases and noise can appear.

White dots appear on the image.	
Light from the flash has reflected off dust particles or insects in the air. This is particularly noticeable when shooting using the wide angle or when you increase the aperture value in the aperture-priority Av mode.	● This is a phenomenon that occurs with digital cameras and does not constitute a malfunction.

Eyes appear red.	
Light is reflected back from the eyes when the flash is used in dark areas.	● Shoot with [Red-Eye] set to [On] (p. 42). For this mode to be effective, the subject must be looking right at the red-eye reduction lamp. Try asking them to look directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject. ● You can correct red eyes in recorded images using the [Red-Eye Correction] (p. 115).

Continuous shooting slows down.	
The memory card's performance has dropped.	● To enhance the continuous shooting performance, you are recommended to low level format the memory card in the camera after you save all its images to your computer (p. 37).

Recording images to memory card takes a long time.	
Memory card was formatted in another device.	● Use a memory card formatted in your camera (p. 37).

Lens will not retract.	
Memory card slot cover/ battery cover was opened with power on.	● After closing the memory card slot/ battery cover, turn the power on then back off (*Basic Guide* p. 5).
The mode was switched from shooting to playback mode.	● The lens will not retract in this case. To retract the lens, turn the mode lever to the left again.

Shooting Movies

The recording time may not display properly or shooting may stop unexpectedly.	
The following types of memory cards are used. - Slow recording cards. - Cards formatted on a different camera or a computer. - Cards which have had images recorded and erased repeatedly.	● Although the recording time may not display properly during shooting, the movie will be recorded correctly on the memory card. Recording time will display properly if you format the memory card in this camera (excluding slow recording memory cards) (p. 37).
"Buffer Warning" (p. 18) displays frequently on the LCD monitor.	
When the camera's internal memory is low. (The "Buffer Warning" displays until it is full, and shooting will automatically stop.)	● Try the following procedures. - Format the card with a low level format before filming (p. 37). - Lower the recording pixels/frame rate (p. 38). - Use a high-speed memory card (SDC-512MSH, etc.).

Playback

Cannot play back.

You attempted to play back images shot with another camera or images edited with a computer.	● Computer images that cannot be played back may play back if they are added to the camera using the supplied software program ZoomBrowser EX or ImageBrowser. See *ZoomBrowser EX/ImageBrowser Software User Guide* (PDF).
File name was changed with a computer or file location was changed.	● Set the file name or location on the file format/structure of the camera. (Refer to the *Software Starter Guide* for details).

Movies cannot be edited.

Some movies shot with another camera cannot be edited.

Movies do not play back correctly.

Movies recorded with high recording pixels and frame rates may momentarily stop playing if played on slow reading memory cards.

You may experience frame dropping and audio breakup when playing back a movie on a computer with insufficient system resources.

Images shot with this camera may not play back properly on other cameras.

Movies recorded at 320 L60 setting and with the video signal set to the PAL format, may play back with a frame rate lower than the recorded one when output to a TV or video. You can play every frame by using the slow motion playback.	● To check the images at the original frame rate, you are recommended to play the movie back on the camera's LCD monitor or viewfinder or on a computer.

Reading images from memory card is slow.	
Memory card was formatted in another device.	● Use a memory card formatted in your camera (p. 37).

Battery

Batteries consumed quickly.	
Battery is not being used to its full capacity.	● See *Battery Handling Precautions* (p. 159).
Batteries are not the right type.	● Use only unused AA-size alkaline batteries or Canon AA-size NiMH batteries (p. 159).
Battery capacity drops due to low ambient temperatures.	● If shooting in a cold location, warm the batteries such as by placing them in your pocket before using them.
Battery terminals are dirty.	● Wipe the terminals well with a dry cloth before use. ● Reload the batteries several times.

If using Canon AA-size NiMH batteries	
As the batteries have not been used for over a year, their recharging capacity has decreased.	● Their charging performance should return to normal after fully recharging and depleting them over several times.
Battery life has been exceeded.	● Replace 4 batteries with new ones.

TV monitor output

Image is distorted or not showing on TV monitor.	
Incorrect video system setting.	● Set the video system to the appropriate setting, NTSC or PAL, for your TV (p. 34).
Shooting in Stitch Assist mode.	● The output will not appear on a TV in Stitch Assist mode. Shoot in a different mode (p. 57).

Printing with a direct print compatible printer

Cannot print.	
The camera and printer are not properly connected.	● Securely connect the camera and printer with the specified cable.
The printer power is not turned on.	● Turn on the printer power.
The print connection method is not correct.	● In the (Set up) menu, select [Print Method] and select [Auto] (p. 34).

List of Messages

The following messages may appear on the LCD monitor (or viewfinder) during shooting or playback.
Please refer to the *Direct Print User Guide* for the messages that display during a printer connection.

Busy...

Image is being recorded to the memory card, or the playback mode is starting up.
Resetting all the camera and menu settings to default.

No memory card

You turned on the camera without a memory card installed, or with a memory card installed in the wrong orientation (*Basic Guide* p. 5).

Card locked!

The SD memory card or SDHC memory card is write protected.

Cannot record!

You attempted to shoot an image without a memory card installed, with a memory card installed in the wrong orientation, or attempted to attach a sound memo to a movie.

Memory card error

The memory card may be malfunctioning. By formatting the malfunctioning memory card with the camera, you may be able to continue using it. However, if this error message appears even when using the supplied memory card, contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Memory card full

Memory card is full of images and no more can be recorded or saved. Or no more image settings can be recorded. Or no more sound memos and sound recorder can be recorded.

Naming error!

The file name could not be created because there is an image with the same name as the folder that the camera is attempting to create, or the highest possible file number has already been reached. In the Set up menu, set [File Numbering] to [Auto Reset]; alternatively, save all the images you wish to retain onto a computer, then reformat the memory card. Please note that formatting will erase all the existing images and other data.

Change the batteries

Battery charge is insufficient to operate the camera. Replace 4 batteries immediately with unused AA-size alkaline batteries or fully charged Canon AA-size NiMH batteries.
Also refer to *Battery Handling Precautions* (p. 159).

No image

No images recorded on memory card.

Image too large

You attempted to play back an image larger than 4992 × 3328 pixels or with a large data size.

Incompatible JPEG

You attempted to play back an incompatible JPEG image (an image that has been downloaded to a computer and altered., etc.).

RAW

You attempted to play back a RAW image.

Unidentified Image

You attempted to play back a corrupted image, an incompatible image (proprietary format used by another manufacturer's camera, etc.), an image edited on a computer or a movie clip recorded by another camera.

Cannot magnify!

You attempted to magnify an image recorded in a different camera or data type, an image edited with a computer, or a movie.

Cannot rotate

You attempted to rotate an image recorded in a different camera or data type, an image edited with a computer.

Incompatible WAVE

A sound memo cannot be added to this image since the data type of the existing sound memo is incorrect, or the sound memo cannot be played back.

Cannot register this image!

You attempted to register an image recorded in a different camera or a movie as a startup image.

Cannot modify image

You attempted to apply a My Colors effect to a movie or an image recorded in a different camera. Or you attempted to apply red-eye correction to an image recorded in a different camera.

Cannot assign to category

You attempted to categorize an image recorded in a different camera.

Cannot transfer!

When transferring images to your computer using the Direct Transfer menu, you attempted to select an image with corrupted data, an image taken with a different camera or data type. You may have also attempted to select a movie when [Wallpaper] was selected in the Direct Transfer menu.

Cannot Modify

Cannot apply red-eye correction as no red-eye is detected.

Protected!

You attempted to erase or edit a protected image, movie or sound memo.

Too many marks

Too many images have been marked with print settings, transfer settings or slide show image settings. Cannot process any more.

Cannot complete!

Could not save a part of the print, transfer or slide show settings.

Unselectable image

You attempted to set the print settings for a non-JPEG image.

Communication error

The computer was unable to download the image due to the large amount of images (approx. 1000) stored on the memory card.

Lens error, restart camera

An error was detected while the lens was in motion, and the power has been automatically turned off. This error can occur if you hold the lens while it is in motion or you operate it in a location with excessive dust or sand in the air. Try turning the power back on, and resume shooting or playback. If this message continues to display, contact your Canon Customer Support Help Desk as there may be a problem with the lens.

Exx

(xx: number) Camera detected an error. Turn the power off and then back on, then shoot or play back. A problem exists if the error code reappears. Note the number and contact your Canon Customer Support Help Desk. If an error code displays directly after taking a picture, the shot may not have been recorded. Check image in playback mode.

Appendix

Battery Handling

Battery Charge

The following icon and message will display.

Battery charge is low. If using the camera for an extended period, replace the batteries as soon as possible.

Change the batteries

Batteries are depleted and the camera can no longer operate. Replace the batteries immediately.

Battery Handling Precautions

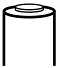
- **This camera uses AA-size alkaline batteries or Canon AA-size NiMH batteries (sold separately).**
  While it is possible to use AA-size nickel-cadmium batteries, performance is unreliable and their use is not recommended.
- **Since the performance of alkaline batteries may differ according to brand, the operating time of the batteries you purchase may not be as long as the batteries that came with the camera.**
- **When using the camera under low temperature conditions or over long periods, you are recommend to use of Canon AA-size NiMH batteries (sold separately).**
  Camera operating time may shorten at low temperatures when alkaline batteries are used. Also due to their specifications, alkaline batteries may expire faster than NiMH batteries.
- **Never mix unused and partially used batteries.**
  The partially used batteries may leak.
- **Do not install the batteries with their terminals (⊕ and ⊖) reversed.**
- **Do not mix batteries of different types or from different manufacturers.**

- **Before installing the batteries, wipe the battery terminals well with a dry cloth.**
  If the battery terminals are soiled with oil from one's skin or other dirt, the number of recordable images may be considerably diminished, or the amount of time the camera can be used reduced.
- **At low temperatures, battery performance may be reduced and the low battery icon ( ) may appear earlier than usual.**
  Under these conditions, restore the battery performance by warming it in a pocket immediately before use.
- **Do not put the batteries into a pocket together with metallic items such as a key ring.**
  The batteries may be short circuited.
- **When not using the camera for long periods, remove the batteries from the camera and store them separately.**
  If the batteries are left inside the camera, the camera may become damaged from battery leakage.

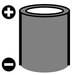
⚠ WARNING

Never use damaged batteries or batteries whose outer seal is completely or partially missing or peeled off, as there is risk that such batteries may leak, overheat, or burst. Always check the seals on store-bought batteries before loading them, as some batteries may come with defective seals. Do not use batteries with defective seals.

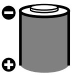
Never use batteries that look like this.



Batteries with all or part of the seal (electrical insulation sheath) peeled off.



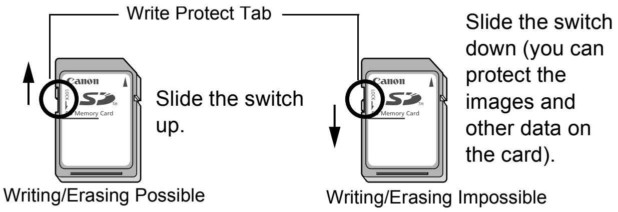
The positive electrode (plus terminal) is flat.



The negative terminal is correctly formed (protruding from the metal base), but the seal does not extend up over the edge of the metal base.

Handling the Memory Card

SD Memory Card or SDHC Memory Card Write Protect Tab



Cautions When Handling

- **Memory cards are high-precision electronic devices. Do not bend them, apply force to them, or subject them to shocks or vibration.**
- **Do not attempt to disassemble or alter the memory card.**
- **Do not allow dirt, water or foreign objects to contact the terminals on the back of the card. Do not touch the terminals with your hands or metal objects.**
- **Do not peel away the original label on the memory card or cover it with another label or sticker.**
- **When writing on the memory card, do not use a pencil or ball-point pen. Only use a soft point pen (e.g. felt-tip pen).**
- **Do not use or store memory cards in the following locations.**
    - Locations subject to dust or sand
    - Locations subject to high humidity and high temperatures
- **Since some or all of the data recorded on the memory card may be corrupted or erased by electrical noise, static electricity, camera or card malfunction, making a backup copy of important data is recommended.**

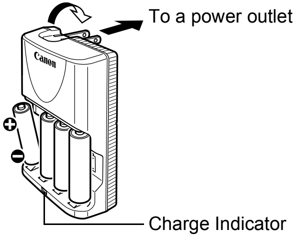
Formatting

- **Please note that formatting (initializing) an memory card erases all data, including protected images.**
- **You are recommended to use memory cards that have been formatted in your camera.**
  - The card supplied with the camera may be used without further formatting.
  - When the camera is malfunctioning, a corrupted memory card might be the cause. Reformatting the memory card may solve the problem.
  - When a non-Canon brand memory card is malfunctioning, reformatting it may solve the problem.
  - Memory cards formatted in other cameras, computers, or peripheral devices may not operate correctly in this camera. When that happens, reformat the memory card with this camera.
- **If formatting in the camera does not work properly, turn the camera off and re-insert the memory card. Then turn the camera back on and format again.**
- **Be careful when transferring or disposing of a memory card. Formatting or erasing the data on a memory card merely changes the file management information on the card and does not ensure that its contents are completely deleted.**
  When disposing of a memory card, take precautions, such as physically destroying the card, to prevent personal information leaks.

Using the Power Kits (Sold Separately)

Using Rechargeable Batteries (Battery and Charger Kit CBK4-300)

This kit includes a battery charger and four rechargeable AA-size NiMH (nickel metal hydride) batteries. Charge batteries as shown below.



- After inserting the batteries, plug the charger (CB-5AH) into an outlet, or attach the power cord to the charger (CB-5AHE, not shown) and plug the other end into an outlet.
- Do not insert and charge additional batteries once charging has begun.
- The charge indicator blinks while charging, then remains lit when charging is finished.

- The CB-5AH/CB-5AHE battery charger can only be used to charge Canon AA-size NiMH Battery NB-3AH and NB-2AH. Please do not attempt to charge any other type of battery.
- Do not mix batteries with different purchase dates or different charge states. When recharging batteries, always recharge all 4 of them at the same time.
- Do not attempt to recharge fully charged batteries, as doing so may reduce or impair battery performance. Also, do not charge batteries for more than 24 consecutive hours.
- Do not recharge batteries in enclosed areas that tend to retain heat.
- Do not recharge the batteries until the LCD monitor (or viewfinder) displays the "Change the batteries" message. Repeatedly recharging batteries before they are depleted may cause batteries to lose capacity.
- Wipe the battery terminals well with a dry cloth in the following situations, as the terminals may be soiled with oil from one's skin or other dirt:
  - If the battery usage time has considerably diminished
  - If the number of recordable images has considerably diminished
  - When charging the batteries (insert and remove the batteries two or three times before charging)
  - When charging completes in a space of a few minutes (the battery charger indicator remains lit)
- You may not be able to fully charge the batteries due to their specifications right after purchase or after long periods of nonuse. If this happens, after fully charging them, use the batteries until their charge is depleted. After doing this several times, battery performance will be restored.

- If you store batteries for a long period of time (about 1 year), it is recommended that you deplete the batteries in the camera and to then store them at room temperature (0 to 30 °C/32 to 90 °F) in low humidity. Storing them in a fully charged condition can shorten their lifespan or degrade their performance.
  Again, if you do not use batteries for more than 1 year, fully charge them once a year and deplete them in the camera before storing them.
- If the battery usage time has become considerably low despite wiping the terminals and charging them until the battery charger indicator remains lit, this may indicate that the batteries have reached the end of their lifespan. Replace them with new batteries. If you are purchasing new batteries, look for Canon AA-size NiMH batteries.
- Leaving batteries in the camera or charger may result in damage from battery leakage. When not in use, remove the batteries from the camera or charger and store them in a cool, dry location.

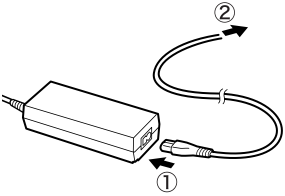
- It takes approximately 4 hours 40 minutes for the charger to fully recharge the batteries after they have been depleted (as determined by testing at Canon facilities).
  Charge batteries in an environment where the temperature is in the range of 0 to 35 °C (32 to 95 °F).
- The charging time varies according to the ambient temperature and to the battery charge state.
- The battery charger may emit noise while charging. This is not a malfunction.
- Battery and Charger Kit CBK4-200 can also be used.

Using a Compact Power Adapter Kit (Sold Separately)

You should use the separately sold Compact Power Adapter CA-PS700 when using the camera for long periods of continuous use or for connecting to a computer or printer.

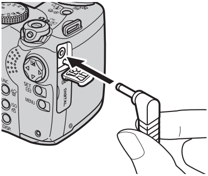
> Turn the camera power off (*Basic Guide* p. 7) before connecting or disconnecting the compact power adapter.

1 Connect the power cord to the compact power adapter (①) first and then plug the other end into the power outlet (②).



- Plug in the power cord firmly as far as it will go.

2 Slip your fingernail under the left end of the terminal cover, and connect the DC plug of the compact power adapter to the camera's DC IN terminal.



- Always disconnect and unplug the compact power adapter after use.

Using Conversion Lenses (Sold Separately)

When attaching the Wide Converter WC-DC58A, Tele-converter TC-DC58B, and Close-up Lens 500D (58mm) (each sold separately) you also need the Conversion Lens Adapter LA-DC58E (included with the separately sold Lens Adapter/Hood Kit LAH-DC20).

- When attaching the wide converter, tele-converter or close-up lens, be sure to screw it on securely. If they come loose, they may fall from the lens adapter, posing risk of injury from shattered glass.
- Never look into the sun or into strong light through the wide converter, tele-converter or close-up lens as this can result in blindness or impairment of vision.

- If the built-in flash is used with the lens hood attached, the outer edges of shot images (especially the lower right) may be darkened.
- When using the tele-converter, set the camera near the maximum telephoto. At other zoom settings, the image will appear as if its corners have been cut off.
- When using the wide converter, set the camera to the maximum wide angle.

■Wide Converter WC-DC58A

Use this converter for taking wide-angle shots. The wide converter changes the focal length of the camera body's lens by a factor of 0.75x (the thread diameter is 58 mm).

■Tele-converter TC-DC58B

This lens is used for taking telephoto shots. The lens changes the focal length of the camera body's lens by a factor of 1.5x. (the thread diameter is 58 mm).

It is not possible to attach a lens hood or filter to the wide converter or tele-converter.

■Close-up Lens 500D (58mm)

This lens makes macro shooting easy. You can take normal shots 28 to 50 cm (11 in. – 1.6 ft.) between the front of the lens and the subject with wide-angle and 35 to 50 cm (1.1 – 1.6 ft.) with telephoto in macro mode.

Shooting Area

	Distance between the front of the lens and the subject	Shooting area
Max. wide angle	28 cm (11.0 in.)	276 × 207 mm (11 × 8.1 in.)
Max. telephoto angle	35 cm (1.1 ft.)	34 × 26 mm (1.3 × 1.0 in.)

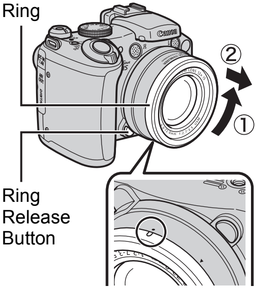
■Lens Adapter/Hood Kit LAH-DC20

- Conversion Lens Adapter LA-DC58E
  This is a lens adapter required for attaching the wide converter, tele-converter and close-up lens (58 mm thread diameter).
- Lens Hood LH-DC40
  We recommend attaching the lens hood to prevent light from outside of the screen from entering the lens when shooting with wide-angle and backlight without a flash.

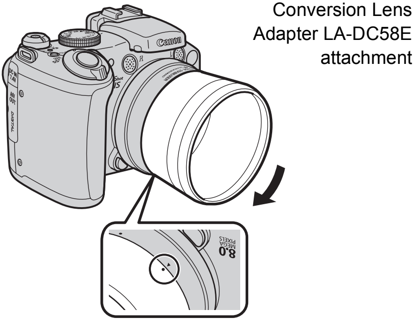
Attaching a Lens/Lens Hood

1 **Be sure that the camera is turned off.**

2 **Press the ring release button and hold it down, and turn the ring in the direction of the arrow (①). When the ● mark on the camera and the ⌒ mark on the ring are aligned, pull off the ring (②).**



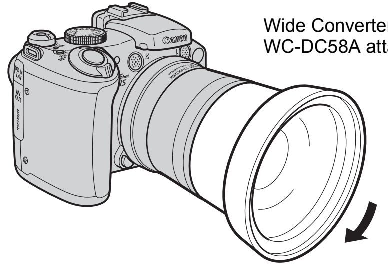
3 **Align the ● mark on the conversion lens adapter with the ● mark on the camera, and turn the adapter in the direction of the arrows until locked (as far as the ▲ mark on the camera).**



- To remove the conversion lens adapter (lens hood or conversion lens), turn the adapter in the opposite direction with holding down the ring release button.

Appendix

4 Set the lens or lens hood on the adapter, and turn it in the indicated direction to attach it securely.



- Completely remove all dust and dirt from conversion lenses with a lens blower brush before use. The camera may focus on any dirt that remains.
- Be careful when handling the lenses since it is easy to get finger prints on them.
- Be careful not to drop the camera or adapter when removing the ring.
- When using these lens attachments, you should not shoot images in [stitch assist icon] mode. It will not be possible to use the PhotoStitch software from your computer to accurately stitch the images together.

Converter Settings

Set up when shooting using the [IS Mode] (p. 44) by attaching the Wide Converter WC-DC58A, Tele-converter TC-DC58B or Close-Up lens 500D (58mm), sold separately.

1 **(Rec.) Menu ➜ [Converter] ➜ [Off]*/ [WC-DC58A]/[TC-DC58B]/[500D].**

See Menus and Settings (p. 27).

* Default setting.

- Select the attached lens.

When you remove the lens from the camera, return the converter setting to [Off].

Using an Externally Mounted Flash (Sold Separately)

Shooting Mode AUTO SCN* P Tv Av M

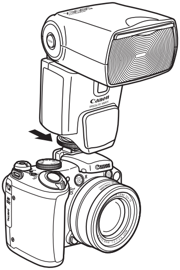
*Cannot be set in mode.

Speedlites

You can make your flash photography even clearer and more natural appearing with the use of a separately sold externally mounted flash.
The camera's auto exposure function will operate with a Canon Speedlite 220EX, 430EX or 580EX II. (Except with the M mode or when [Flash Adjust] is set to [Manual].) Other flashes may fire manually or not fire at all.
Please check the manual for your flash.

* Certain functions noted in the manuals for the Canon Speedlite 220EX, 430EX and 580EX II cannot be performed when mounted on this camera. Please read this guide before using one of these flashes on the camera.

1 **Attach the flash to the camera's hot shoe.**



2 **Turn the external flash on and turn the camera on.**

- (red) appears on the LCD monitor (or viewfinder).

3 Turn the shooting mode dial to the desired mode.

- **Speedlite 220EX, 430EX or 580EX II***
  - The maximum flash synchro shutter speed is 1/250 second.
  - The flash will automatically adjust its output when [Flash Adjust] is set to [Auto].
  - In M mode or when [Flash Adjust] is set to [Manual], the flash will fire with manual adjustments. Refer to the guide number noted in the instructions manual for the flash you are using for aperture value and ISO speed, and set the appropriate value for the distance from the subject.
  - When [Flash Adjust] is set to [Auto] the flash exposure compensation can be adjusted. When [Flash Adjust] is set to [Manual], the flash output can be adjusted (p. 94).
  - In M mode or when [Flash Adjust] is set to [Manual], the output of an externally mounted flash can be adjusted in the flash output adjustment screen (p. 94). When a Speedlite 430EX or 580EX II is mounted on the camera, you can adjust the flash output from either the flash or the camera. (The flash setting overrides the camera setting when both are set.) To set it from the flash, you are recommended to use the flash's manual mode. When using Speed Light 220 EX, adjustment can be made on the camera only. You can also adjust the flash output even when the camera is set to the E-TTL automatic flash exposure compensation mode by changing the flash exposure compensation setting. To shoot with the flash, you are recommended to set the white balance to the (Flash) setting.

  * You can also use 380E, 420E, 550EX and 580EX.

- **Other Canon Flashes**
  - Since other flashes fire at full strength, set the shutter speed and aperture accordingly. You are recommended to set the white balance to (Flash) to shoot.

4 Press the shutter button halfway.

- The flash is charged when its pilot lamp lights up.

5 Press the shutter button all the way to shoot the image.

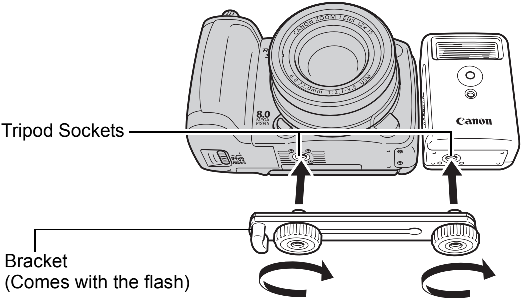
- For continuous shooting, the flash can be in quick flash mode (pilot lamp lit green). In this case, light emission may be smaller than with full flash (pilot lamp lit red).
- The focus bracketing mode and the AEB mode cannot be used for flash photography. If the flash fires, only one image gets recorded.
  Flashes (especially high-voltage flashes) or flash accessories made by other manufacturers may override certain camera functions or cause a camera malfunction.

- The following functions can be used with a Speedlite 220EX, 430EX or 580EX II*.
  - Auto Exposure (Use the E-TTL mode with a 430EX or 580EX II)
  - FE Lock (Not available in M mode or when [Flash Adjust] is [Manual])
  - Flash Sync (1st-curtain/2nd-curtain) (2nd-curtain priority with Speedlite 430EX or 580EX II)
  - Slow Synchro
  - Flash Exposure Compensation (When Speedlite 430EX or 580EX II is used, if flash exposure adjustments are made both from the camera and the flash, the 430EX's (or 580EX II's) flash exposure compensation setting takes precedence when the flash is set to E-TTL mode. The camera's flash exposure compensation setting will not activate.)
  - Auto Zoom (Not available with the 220EX)
  - Manual flash
  - High-speed sync

* You can also use 380E, 420E, 550EX and 580EX.

High-Power Flash HF-DC1

This flash is used to supplement the camera's built-in flash when the subject is too far away for proper illumination. Use the following procedures to affix the camera and High-Power Flash to the supporting bracket.
Please read the instructions accompanying the flash along with this explanation.



- The High-Power Flash will not fire under the following circumstances.
  - When shooting in M mode
  - When [Flash Sync] is on [2nd-curtain]
  - When [Flash Adjust] is on [Manual]
- The flash charge time will lengthen as the battery charge gets weaker. Always set the power/mode switch to off when you finish using the flash.
- Be careful not to touch the flash window or sensor windows with your fingers while the flash is in use.
- The flash may fire if another flash is being used in close proximity.
- The High-Power Flash may not fire outdoors in daylight or when there are no reflective items.
- For continuous shooting, although the flash fires for the first shot, it does not fire for subsequent shots.
- Fasten the attachment screws securely so that they do not loosen. Failure to do so may lead to the dropping of the camera and flash resulting in damage to both.

- Before attaching the bracket to the flash, check that the lithium battery (CR123A or DL123) is installed.
- To illuminate the subjects properly, install the flash so that it is up against the side of the camera and parallel with the camera's front panel.
- A tripod can be used even when the flash is attached.

■Batteries

● Charge becomes Severely Limited

If the battery usage time has considerably diminished, wipe the battery terminals well with a dry cloth. The terminals may be dirty from fingerprints.

● Usage in Cold Temperatures

Get a spare generic lithium battery (CR123A or DL123). You are recommended to place the spare battery in your pocket to warm it up before switching it for the battery in the flash.

● Non-Use over Extended Periods

Leaving batteries in the High-Power Flash could allow the battery fluid to leak, damaging the product. Remove the batteries from the High-Power Flash and store them in a cool, dry place.

Replacing the Date Battery

If the Date/Time menu appears when the camera power is turned on, the date battery charge is low and the date and time settings have been lost. Please purchase a lithium coin battery (CR1220) and replace it as follows.

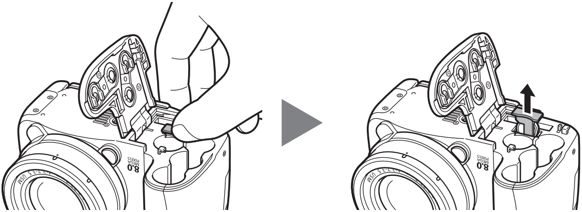
The date battery is preinstalled at the factory and may therefore expire earlier than its rated lifespan after the camera has been purchased.

⚠ Be particularly careful to keep the date batteries out of the reach of children. Seek medical assistance immediately if a child swallows a battery since corrosive battery fluids could damage the stomach or intestinal wall.

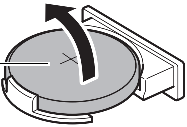
1 Confirm that the camera is turned off.

2 Slide the memory card slot/battery cover lock and open the cover.

3 **Remove the AA-size batteries, then pull out the battery holder by hooking your fingernail under the center of the battery holder edge.**



4 **Remove the battery by pulling it up in the direction indicated by the arrow.**



5 **Insert a new battery with the (+) side facing up.**

6 **Replace the battery holder and close the memory card slot/battery cover.**

7 **When the Date/Time menu appears, set the date and time (*Basic Guide* p. 8).**

After purchasing the camera and turning on the power for the first time, although the Date/Time menu will appear, you do not need to replace the date battery.

If you ever dispose of your camera, first remove the date battery for recycling according to the recycling system of your country.

Camera Care and Maintenance

Never use thinners, benzine, detergents or water to clean the camera. These substances may distort or damage the equipment.

Camera Body

Gently wipe dirt off the camera body with a soft cloth or eyeglass lens wiper.

Lens

First use a lens blower brush to remove dust and dirt, then remove any remaining dirt by wiping the lens lightly with a soft cloth.

Never use organic solvents on the camera body or lens. If dirt remains, contact the closest Canon Customer Support Help Desk as listed on the separate customer support list supplied with your camera.

Viewfinder and LCD Monitor

Use a lens blower brush to remove dust and dirt. If necessary, gently wipe with a soft cloth or an eyeglass lens wiper to remove stubborn dirt.

Never rub or press strongly on the LCD monitor. These actions may damage it or lead to other problems.

Specifications

All data is based on Canon's standard testing methods. Subject to change without notice.

PowerShot S5 IS

Camera Effective Pixels	: Approx. 8.0 million
Image Sensor	: 1/2.5-inch type CCD (Total number of pixels: Approx. 8.3 million pixels)
Lens	: 6.0 (W) – 72.0 (T) mm (35mm film equivalent: 36 (W) – 432 (T) mm) f/2.7 (W) – f/3.5 (T)
Digital Zoom	: Approx. 4.0x (Up to approx. 48x in combination with the optical zoom)
Viewfinder	: Color LCD viewfinder (Picture coverage rate 100%) Dioptric Adjustment - 5.5 to +1.5 m^{-1} (dpt.)
LCD Monitor	: 2.5-inch type, low-temperature polycrystalline silicon TFT color LCD, approx. 207,000 pixels (Picture coverage rate 100%) (Vari-angle type)
AF System	: TTL autofocus AF lock and Manual focus are available Focusing frame: AF (Face Detect* / Center**) * If no face is detected, 1 point (fixed to center) is used. ** Center or FlexiZone AF
Focusing Range (From end of lens)	: Normal: 50 cm (1.6 ft.) – infinity / 90 cm (3.0 ft.) – infinity (T) Macro: 10 – 50 cm (W) (3.9 in. – 1.6 ft. (W)) Super Macro: 0 – 10 cm (0 – 3.9 in.) (W only) Manual focus: 10 cm (3.9 in.) – infinity (W) Sports mode: 1.0 m (3.3 ft.) – infinity (W)/ 4.0 m (13.1 ft.) – infinity (T)
Shutter	: Mechanical shutter and electronic shutter

(W): Max. wide angle (T): Max. telephoto

Shutter Speeds	:	15 – 1/3200 sec. • The shutter speed varies according to the shooting mode. • Slow shutter speeds of 15 to 1.3 sec. or slower operate with noise reduction.
Image Stabilization	:	Lens-shift type Continuous/Shoot Only*/Panning*/Off * Still images only
Metering System	:	Evaluative*, Center-weighted average or Spot** * When [Face Detect] is selected, the brightness of the face is also evaluated. ** Center or AF-point
Exposure Compensation	:	± 2.0 stops in 1/3-stop increments Auto exposure bracketing (AEB) and Safety Shift are available.
ISO Speed (Standard Output Sensitivity, Recommended Exposure Index)	:	Auto*, High ISO Auto**, ISO 80 / 100 / 200 / 400 / 800 / 1600 * Camera automatically sets the optimal speed. ** Camera automatically sets the optimal speed according to subject brightness. However, the ISO speed is set relatively higher than Auto (maximum ISO speed is ISO 800.)
White Balance	:	Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash or Custom
Built-in Flash	:	Auto, on, off Flash output compensation (±2.0 stops in 1/3-stop increments), Red-Eye Reduction, flash output settings (3 steps), FE Lock, Slow Synchro, 2nd-curtain Synchro and Safety FE are available.
Built-in Flash Range	:	Normal: 50 cm – 5.2 m (1.6 – 17 ft.) (W)/ 90 cm – 4.0 m (3.0 – 13 ft.) (T) Macro: 30 – 50 cm (12 in. – 1.6 ft.) (W) (ISO speed: Auto)
External Flash	:	Flash output compensation (±2.0 stops in 1/3-stop increments), flash output settings (19 levels (Can be set from full flash to 1/64 power in one-third steps)), FE Lock, Slow Synchro, 2nd-curtain Synchro and Safety FE are available.

(W): Max. wide angle (T): Max. telephoto

Terminals for External Flash	: Hot shoe flash-sync contacts Use of the following external flashes is recommended: Canon Speedlite 220EX, 430EX and 580EX II.
Shooting Modes	: Auto Creative zone: **P** Program, **Tv** Shutter-speed priority, **Av** Aperture priority, **M** Manual, **C** Custom Image zone: Portrait, Landscape, Night Snapshot, Sports, Special Scene*, Stitch Assist, Movie * Night Scene, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium, Color Swap and Color Accent
Continuous Shooting	: Approx. 1.5 shots/sec.* Approx. 0.9 shots/sec.* (Continuous shooting AF) Approx. 0.9 shots/sec.* (Continuous Shooting LV) * In Large/Fine mode
Self-timer	: Activates shutter after an approx. 10-sec./ approx. 2-sec. delay, Custom Timer
Computer-controlled shooting	: Shooting possible when connected to a computer using supplied software.
Recording Media	: SD memory card/SDHC memory card/ MultiMediaCard
File Format	: Design rule for camera file system and DPOF compliant
Data Type	: Still images: Exif 2.2 (JPEG)* Sound Memo and Sound Recorder: WAVE (stereo) : Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (stereo)) * This digital camera supports Exif 2.2 (also called "Exif Print"). Exif Print is a standard for enhancing the communication between digital cameras and printers. By connecting to an Exif Print-compliant printer, the camera's image data at the time of shooting is used and optimized, yielding extremely high quality prints.
Compression	: Superfine, Fine, Normal

Number of Recording Pixels	(Still images)	: Large : 3264 × 2448 pixels Medium 1 : 2592 × 1944 pixels Medium 2 : 2048 × 1536 pixels Medium 3 : 1600 × 1200 pixels Small : 640 × 480 pixels Wide : 3264 × 1832 pixels
	(Movies)	: 640 × 480 pixels (30 frames/sec.) 640 × 480 pixels (30 frames/sec. LP) 320 × 240 pixels (60 frames/sec.) 320 × 240 pixels (30 frames/sec.) Recording can continue until the memory card is full* (Max. Clip Size at one time: 4 GB**) * Using super high-speed memory cards (SDC-512 MSH recommended). ** Even if the clip size has not reached 4 GB, recording will stop at the moment the clip length reaches 1 hour. Depending on memory card capacity and data write speed, recording may stop before the file size reaches 4 GB or the recording time reaches 1 hour.
Audio		: Quantization Bit Rate: 16 bit Sampling Rate Sound Memos: 11.025 kHz Movies: 44.100 kHz Sound Recorder: 11.025 kHz, 22.050 kHz, 44.100 kHz
Playback Modes		: Single (histogram displayable), Index (9 thumbnail images)/Magnified (approx. 10x max. in LCD monitor or viewfinder, forward or reverse selection through magnified images possible), Red-Eye Correction, My Category, Jump (it is possible to jump to every tenth or hundredth image, to the first image of each shooting date, to movies or to the first image in each category or folder. In index playback mode, it displays 9 images at once.), Slide Show, My Colors, Sound memos (it is possible to record and playback up to 1 min.), Movie (editing/slow-motion playback possible), Sound recorder (up to 2 hours. of recording/playback of sound only)

Custom Display Function	:	Display location: LCD monitor (2), viewfinder (2) Displayed information: shooting info*, grid lines*, 3:2 guide*, histogram* * You can enable/disable display of this information for each of the display locations.
Direct Print	:	PictBridge compliant, and Canon Direct Print and Bubble Jet Direct compatible
My Camera settings	:	Start-up image, start-up sound, operation sound, self-timer sound, and shutter sound
Interface	:	USB 2.0 Hi-Speed (mini-B) Audio/Video output (NTSC or PAL selectable, stereo audio)
Communication Settings	:	MTP, PTP
Power Source	:	AA alkaline batteries (included in the camera kit) AA NiMH batteries (NB-3AH*) * Supplied with the separately sold NiMH Battery NB4-300 set or the Battery and Charger Kit CBK4-300 Compact Power Adapter (CA-PS700) (sold separately)
Operating Temperatures	:	0 – 40 °C (32 – 104 °F) (when a NB-3AH is used, 0 – 35 °C (32 – 95 °F))
Operating Humidity	:	10 – 90%
Dimensions (excluding protrusions)	:	117.0 × 80.0 × 77.7 mm (4.60 × 3.15 × 3.06 in.)
Weight (camera body only)	:	Approx. 450 g (15.9 oz.)

Battery Capacity

	Number of Images Shot		Playback Time
	LCD Monitor On (Based on the CIPA standard)	**LCD Monitor Off**	
AA-size Alkaline Batteries (included with the camera)	Approx. 170 images	Approx. 200 images	Approx.12 hours
AA-size NiMH Batteries (NB-3AH (fully charged))	Approx. 450 images	Approx. 470 images	Approx.15 hours

- The actual figures will vary according to the shooting conditions and settings.
- Movie data is excluded.
- At low temperatures, the battery performance may diminish and the low battery icon may appear very rapidly. In these circumstances, the performance can be improved by warming the battery in a pocket before use.

Test Conditions

Shooting: Normal temperature (23 °C ±2 °C/73 °F ±3.6 °F), normal relative humidity (50% ±20%), alternating wide angle end and telephoto end shots at 30 second intervals with the flash fired once every two shots and the camera power turned off after every tenth shot. Power is left off for a sufficient amount of time*, then the power is turned back on and the testing procedure is repeated.

- A Canon-brand memory card is used.

* Until the battery returns to normal temperature

Playback: Normal temperature (23 °C ±2 °C/73 °F ±3.6 °F), normal relative humidity (50% ±20%), continuous playback at 3 seconds per image.

See *Battery Handling Precautions* (p. 159).

Memory Cards and Estimated Capacities

☐: Card included with the camera

Recording Pixels	Compression	32 MB	SDC-128M	SDC-512MSH
L (Large) 3264 × 2448 pixels	S (Superfine)	8	35	139
	Fine	14	59	231
	Normal	29	123	479
M1 (Medium 1) 2592 × 1944 pixels	S (Superfine)	11	49	190
	Fine	20	87	339
	Normal	41	173	671
M2 (Medium 2) 2048 × 1536 pixels	S (Superfine)	18	76	295
	Fine	32	136	529
	Normal	64	269	1041
M3 (Medium 3) 1600 × 1200 pixels	S (Superfine)	29	121	471
	Fine	52	217	839
	Normal	99	411	1590
S (Small) 640 × 480 pixels	S (Superfine)	111	460	1777
	Fine	171	711	2747
	Normal	270	1118	4317
W (Wide) 3264 × 1832 pixels	S (Superfine)	11	47	183
	Fine	18	79	307
	Normal	39	166	642

- (shaded): Capable of smooth continuous shooting (p. 46) (When card has been formatted with a low level format).
- This reflects standard shooting criteria established by Canon. Actual results may vary according to the subject and shooting conditions.

Movie

: Card included with the camera

Modes	Recording Pixels/ Frame Rate	32 MB	SDC-128M	SDC-512MSH
640 L30	640 × 480 pixels/ 30 frames/sec.	13 sec.	58 sec.	3 min. 48 sec.
640 LLP	640 × 480 pixels/ 30 frames/sec. (LP)	25 sec.	1 min. 48 sec.	6 min. 59 sec.
320 L60	320 × 240 pixels/ 60 frames/sec.	19 sec.	1 min. 21 sec.	5 min. 17 sec.
320 L30	320 × 240 pixels/ 30 frames/sec.	34 sec.	2 min. 24 sec.	9 min. 19 sec.

* The figures indicate the maximum continuous recording time.

Estimated Sound Recorder File Sizes and Recording Times

: Card included with the camera

	Sound Size	32 MB	SDC-128M	SDC-512MSH
11.025 kHz	44 KB/sec.	11 min. 44 sec.	48 min. 30 sec.	3 hrs. 7 min. 8 sec.
22.050 kHz	88 KB/sec.	5 min. 52 sec.	24 min. 15 sec.	1 hr. 33 min. 34 sec.
44.100 kHz	176 KB/sec.	2 min. 56 sec.	12 min. 7 sec.	46 min. 47 sec.

Image Data Sizes (Estimated)

Recording Pixels		Compression		
		Superfine	Fine	Normal
L	3264 × 2448 pixels	3436 KB	2060 KB	980 KB
M1	2592 × 1944 pixels	2503 KB	1395 KB	695 KB
M2	2048 × 1536 pixels	1602 KB	893 KB	445 KB
M3	1600 × 1200 pixels	1002 KB	558 KB	278 KB
S	640 × 480 pixels	249 KB	150 KB	84 KB
W	3264 × 1832 pixels	2601 KB	1540 KB	736 KB

Modes	Recording Pixels	Frame Rate	File Size
640 30	640 × 480 pixels	30 frames/sec.	2006 KB/sec.
640 LP	640 × 480 pixels	30 frames/sec. (LP)	1046 KB/sec.
320 60	320 × 240 pixels	60 frames/sec.	1406 KB/sec.
320 30	320 × 240 pixels	30 frames/sec.	746 KB/sec.

MultiMediaCard

Interface	Compatible with MultiMediaCard standards
Dimensions	32.0 × 24.0 × 1.4 mm (1.3 × 0.9 × 0.06 in.)
Weight	Approx. 1.5 g (0.05 oz.)

SD Memory Card

Interface	Compatible with SD memory card standards
Dimensions	32.0 × 24.0 × 2.1 mm (1.3 × 0.9 × 0.1 in.)
Weight	Approx. 2 g (0.07 oz.)

NiMH Battery NB-3AH

(Supplied with the separately sold NiMH Battery NB4-300 set or the Battery and Charger Kit CBK4-300)

Type	AA-size rechargeable nickel metal hydride battery
Nominal Voltage	1.2 V DC
Typical Capacity	2500 mAh (min.: 2300 mAh)
Cycle Life	Approx. 300 times
Operating Temperatures	0 – 35 °C (32 – 95 °F)
Diameter × Length	14.5 × 50.0 mm (0.57 × 2.0 in.)
Weight	Approx. 30 g (1.06 oz.)

Battery Charger CB-5AH/CB-5AHE

(Supplied with the separately sold Battery and Charger Kit CBK4-300)

Rated Input	100 – 240 V AC (50/60 Hz)
Rated Output	565 mA*1, 1275 mA*2
Charging Time	Approx. 4 hours 40 min.*1, approx. 2 hours*2
Operating Temperatures	0 – 35 °C (32 – 95 °F)
Dimensions	65.0 × 105.0 × 27.5 mm (2.56 × 4.13 × 1.08 in.)
Weight (body only)	Approx. 95 g (3.35 oz.)

*1 When charging four NB-3AH batteries

*2 When charging two NB-3AH batteries loaded one on each side of the battery charger

Compact Power Adapter CA-PS700 (Sold Separately)

Rated Input	AC 100 – 240 V (50/60 Hz)
Rated Output	DC 7.4 V/2.0 A
Operating Temperatures	0 – 40 °C (32 – 104 °F)
Dimensions	112.0 × 29.0 × 45.0 mm (4.4 × 1.1 × 1.8 in.)
Weight	Approx. 185 g (6.5 oz.) (excluding power cord)

Wide Converter WC-DC58A (Sold Separately)

Magnification	0.75x
Focal Length*3	27 mm (35mm film equivalent)
Lens Composition	3 elements in 3 groups
Focusing Range*3	28 cm – infinity (11 in. – infinity) (W)*4
Thread Diameter	58 mm standard filter thread*5
Dimensions Diameter × Length	79.0 mm × 39.3 mm (3.1 × 1.5 in.)
Weight	Approx. 170 g (6.0 oz.)

Tele-converter TC-DC58B (Sold Separately)

Magnification	1.5x
Focal Length*6	648 mm (35mm film equivalent)
Lens Composition	5 elements in 3 groups
Focusing Range*6	2.0 m (6.6 ft.) – infinity (T)*4
Thread Diameter	58 mm standard filter thread*5
Dimensions Diameter × Length	72.0 mm × 64.8 mm (2.8 in. × 2.6 in.)
Weight	Approx. 170 g (6.0 oz.)

Close-up Lens 500D 58mm (Sold Separately)

Focusing Range (From end of lens)	28 – 50 cm (11 in. – 1.6 ft.) (W) 35 – 50 cm (1.1 – 1.6 ft.) (T)
Thread Diameter	58 mm standard filter thread*5
Dimensions Diameter × Length	60.0 mm × 10.5 mm (2.4 in. × 0.4 in.)
Weight	Approx. 60 g (2.1 oz.)

*3 When mounted on PowerShot S5 IS (Max. wide angle)
*4 From front of the mounted converter during normal shooting.
*5 Conversion Lens Adapter LA-DC58E is required when mounted on PowerShot S5 IS
*6 When mounted on PowerShot S5 IS (Max. telephoto)

Conversion Lens Adapter LA-DC58E (Sold Separately)

(Included with the separately sold Lens Adapter/Hood Set LAH-DC20)

Thread Diameter	58 mm standard filter thread
Dimensions Diameter × Length	63.0 × 43.1 mm (2.5 in. ×1.7 in.)
Weight	Approx. 19 g (0.67 oz.)

Lens Hood LH-DC40

(Included with the separately sold Lens Adapter/Hood Set LAH-DC20)

Thread Diameter	58 mm standard filter thread
Dimensions Diameter × Length	79.0 mm × 31.5 mm (3.1 in. × 1.2 in.)
Weight	Approx. 19 g (0.67 oz.)

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FCC Notice
(Digital Camera, Model PC1234)

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A., Inc.

One Canon Plaza, Lake Success, NY 11042, U.S.A.

Tel No. (516) 328-5600

Canadian Radio Interference Regulations
This Class B digital apparatus complies with Canadian ICES-003.

Réglementation canadienne sur les interférences radio
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Disclaimer

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.
- Canon reserves the right to change the specifications of the hardware and software described herein at anytime without prior notice.
- No part of this guide may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without the prior written permission of Canon.
- Canon makes no warranties for damages resulting from corrupted or lost data due to a mistaken operation or malfunction of the camera, the software, SD memory cards (SD cards), personal computers, peripheral devices, or use of non-Canon SD cards.

Trademark Acknowledgments

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- Macintosh, the Mac logo, Quick Time and the QuickTime logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
- The SDHC logo is a trademark.

For CA, USA only

Included lithium battery contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

Functions Available in Each Shooting Mode

The following chart shows the functions and settings available in each shooting mode.

			AUTO	Special Scene	SCN	Stitch Assist	Movie	P	Tv	Av	M	Ref. Page
Recording Pixels (Still Image)	Large	[L]	●	●	●	▲	●	●	●	●	●	p. 38
	Medium 1	[M1]	○	○	○	△	○	○	○	○	○	
	Medium 2	[M2]	○	○	○	△	○	○	○	○	○	
	Medium 3	[M3]	○	○	○	△	○	○	○	○	○	
	Small	[S]	○	○	○	△	○	○	○	○	○	
	Wide	[W]	○	○	○	–	○	○	○	○	○	
Compression	Super Fine		○	○	○	△	○	○	○	○	○	p. 38
	Fine		●	●	●	▲	●	●	●	●	●	
	Normal		○	○	○	△	○	○	○	○	○	
Movie Recording Pixels/ Frame Rate(1)			○	○	○	○	○	○	○	○	○	p. 53
Flash(2)	Auto		○	●(3)	●(4)(5)	–	–	●	–	–	–	*Basic Guide* p. 14
	On		–	○(3)	○(4)	△	–	○	○	○	○	
	Off		●	●	●	▲	–	●	●	●	●	
Red-Eye Reduction			○	○(3)	○(4)	○	–	○	○	○	○	p. 42
Slow Synchro			–	–(6)	–(6)	△	–	○	–	○	–	p. 43
Drive Mode	Single Shot		●	●	●	●	●	●	●	●	●	*Basic Guide* p. 18
	Continuous Shooting		–	○(3)	○(7)	–	–	○	○	○	○	p. 46
	Continuous Shooting AF		–	○(8)	○(7)(4)	–	–	○	○	○	○	
	Continuous Shooting LV		–	○(3)	○(7)	–	–	○	○	○	○	
	10-sec. Self-Timer		○	○(3)	○	○	○	○	○	○	○	*Basic Guide* pp. 18, 19
	2-sec. Self-Timer		○	○(3)	○	○	○	○	○	○	○	
	Custom Timer		○	○(3)	○(7)	–	–	○	○	○	○	
Flash Adjust			○(9)	○(3)(9)	○(4)(9)	○(9)	–	○(9)	○	○	–	p. 93

Function	Setting	Icon	AUTO		SCN			P	Tv	Av	M	Ref. Page
+/- (Flash)			–	–	–	△	–	○	○	○	–	p. 94
Flash Output			–	–	–	–	–	–	○	○	○	p. 94
Flash Sync	1st-curtain		○	○[10]	○[10]	○	–	●	●	●	●	p. 95
	2nd-curtain		–	–	–	–	–	○	○	○	○	
AF Frame	Face Detect		●	●[3]	●[4]	–	●	○	○	○	○	p. 69
	Center		○	○	○	○	○	●	●	●	●	
Focus Settings	Continuous		●	●	●[4]	▲	○	●	●	●	●	p. 72
	Single		○	○[3]	○	△	–	○	○	○	○	
AF Lock		MF	–	○[3]	○[4]	○	○	○	○	○	○	p. 74
Manual Focus		MF	–	○[3]	○[4]	○	○	○	○	○	○	p. 75
MF-Point Zoom			–	○[3]	○[4]	–	–	○	○	○	○	p. 75
AF-assist Beam			○	○[3]	○[4][11]	○	○	○	○	○	○	p. 29
Macro/Super Macro			○	○[12]	○[4]	○	–	○	○	○	○	*Basic Guide* p. 16
			–	–	○[13]	–	○	○	○	○	○	
Digital Zoom			○	○	○[7]	–	○	○	○	○	○	p. 40
Digital Tele-converter			○	○	○[7]	–	–	○	○	○	○	p. 40
Safety Shift			–	–	–	–	–	–	○	○	–	p. 67
Safety FE			–	–	–	–	–	○	○	○	–	p. 67
Exposure Compensation[14]			–	○	○[7]	△	–	○	○	○	–	p. 83
Exposure Shift			–	–	–	–	○	–	–	–	–	p. 52
ISO Speed		ISO	○[15]	–[16]	–[16]	–[16]	–[16]	○	○[17]	○[17]	○[18]	p. 80
White Balance[19]		AWB	–[16]	–[16]	–[16]	△[20]	○[21]	○	○	○	○	p. 88
Metering Method	Evaluative		○	○	○	△	○	●	●	●	●	p. 78
	Center-Weighted Average Metering		–	–	–	–	–	○	○	○	○	
	Spot		–	–	–	–	–	○	○	○	○	
	Spot: Center		–	–	–	–	–	●	●	●	●	
	Spot: AF Point		–	–	–	–	–	○	○	○	○	
AE Lock/FE Lock			–	–	–	–	○[22]	○	○	○	–	pp. 84, 86

			AUTO	[icons]	SCN	[icon]	[icon]	P	Tv	Av	M	Ref. Page
Bracket	AEB	[icon]	–	–	–	–	–	○	○	○	–	pp. 77, 87
	Focus-BKT	[icon]	–	–	–	–	–	○	○	○	○	
My Colors		[icon]	–	–	–	△	○	○	○	○	○	p. 91
Save Original			–	–	○(13)	–	–	–	–	–	–	p. 62
Reverse Disp.			○	○	○	–	○	○	○	○	○	p. 29
Custom Display			○(23)	○(23)	○(23)	○(24)	○(25)	○	○	○	○	p. 15
IS Mode			○	○	○	△	○(26)	○	○	○	○	p. 44
Auto Rotate			○	○	○	△	○	○	○	○	○	p. 99
Auto Category			○	○	○	○	○	○	○	○	○	p. 30

* ○: Setting available (●: Default setting) △: Setting can only be selected for the first image. (▲: Default setting) –: Setting selection is not possible.

• (Shaded Area): Setting is retained even when the camera power is shut off.

(1) The recording pixels and frame rates for the [icon] (Movie) mode (p. 53).
(2) This will be set to [Flash off] when the flash is lowered to close.
(3) This cannot be set in [icon] mode.
(4) This cannot be set in [icon] mode.
(5) This cannot be set in [icon] mode.
(6) This will be fixed to [On] in the [icon], [icon] and [icon] modes ([Off] cannot be selected).
(7) This cannot be set in [icon] or [icon] mode.
(8) This is the default setting in [icon] mode.
(9) [Off] cannot be set.
(10) This will be fixed to [Off] in the [icon] or [icon] mode.
(11) Can only be set in [icon] mode when the flash setting is set to [Flash on].
(12) This cannot be set in [icon] or [icon] mode.
(13) Can only be set in [icon] or [icon] mode.
(14) The default setting will be zero.
(15) Only switching between ISO AUTO and ISO HI is available.
(16) Automatically set by the camera.
(17) ISO HI cannot be set.
(18) ISO AUTO or ISO HI cannot be set.
(19) This cannot be set when My Colors is set to [Sepia] or [B/W].
(20) White balance data cannot be read in Manual.
(21) [icon] cannot be set.
(22) FE lock cannot be selected.
(23) [Histogram] cannot be set.
(24) Only [Shooting Info] can be set.
(25) [3:2 Guide] cannot be set.
(26) [Shoot Only] and [Panning] cannot be set.